

# **Comparison of the Canadian Construction Site** Fire Safety Regulations/Guidelines

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## TABLE OF CONTENTS

1.0	) Introduction and Scope1		
	1.1	ntroduction	1
	1.2	cope	1
2.0	Арр	ach to Comparison	2
	2.1	Regulations/Guidelines Used in the Comparison	2
		2.1.1 Construction Regulations	2
		2.1.2 Fire Regulations	3
		2.1.3 Occupational Health and Safety Regulations	3
		2.1.4 Jurisdiction Specific Guidelines/Interpretations	4
	2.2	Comparison Framework	4
3.0	Resu	s of Comparison	Э
4.0	Disc	ssion10	C
	4.1	Construction Regulations (Building Codes)1	C
	4.2	Fire Regulations (Fire Codes)1	C
	4.3	Occupational Health and Safety Regulations10	C
	4.4	urisdiction Specific Guidelines/Interpretations1	1
5.0	Con	usion12	2
6.0	Sour	es of Information1	3
	6.1	Regulation and Guidance Documents1	3
	6.2	Additional References	6

Appendix A: Lower Level Fire Safety Concept Tree Branches

Appendix B: Summary Tables for Construction and Fire Regulations

- Appendix C: Summary Tables for Occupational Health and Safety Regulations
- Appendix D: Summary Tables for Guidance Documents and Local By-Laws

Appendix E: List of Documents Reviewed

## 1.0 INTRODUCTION AND SCOPE

This report provides a detailed comparison of construction site fire and life safety regulations and guidelines from a selection of jurisdictions throughout Canada.

#### 1.1 INTRODUCTION

Recent construction site fires have received significant national attention and have highlighted the potential level of risk associated with fires in course of construction structures. Fire and life safety on construction sites is regulated provincially by building codes, fire codes and occupational health and safety regulations. Guidelines and interpretations of these regulations are provided by cities and trade associations to inform and bridge the current regulations. However, the requirements of these are broad-based and not uniformly applied across the country.

To assist in providing an overview of the current state, this report provides a framework for comparison of these national, provincial and local regulations and jurisdiction guidelines in a common and structured context.

#### **1.2 SCOPE**

This report has been prepared at the request of the Canadian Wood Council to provide a detailed comparison of fire and life safety provisions from applicable regulations and guidance documents related to construction sites.<sup>1</sup> Therefore, the scope of this report is to present a detailed comparison of the construction site safety provisions of:

- the National Model Codes of Canada and the Provincial Codes that differ from the National Model Codes in this respect.
- the Occupational Health and Safety Regulations for each of the provinces and territories of Canada.
- Guidelines and interpretations of construction site safety regulations issued by cities of Canada.

The similarities and differences between the construction site fire and life safety provisions will be discussed within a common framework of comparison. This framework and the specific regulations and guidelines to be compared are discussed in more detail in the following sections of this report.

<sup>&</sup>lt;sup>1</sup> Although the scope of some of the regulations/guidelines analyzed in this report include fire and life safety on demolition sites, such provisions are not specifically considered within the context of this study.

## 2.0 APPROACH TO COMPARISON

The breadth and diversity of regulations addressing construction site fire and life safety is significant across Canada. This is challenging relative to providing a comparative assessment of the requirements in a manner that facilitates risk assessment. The following sections of this report summarize the regulations and guidelines to be compared and the approach applied for this comparison.

## 2.1 REGULATIONS/GUIDELINES USED IN THE COMPARISON

The regulations and guidelines to be compared are listed according to primary function and include construction regulations, fire regulations (maintenance), occupational health and safety regulations, and jurisdiction-specific guidelines and interpretations.

The Provinces are responsible for regulating building construction. Each Province or Territory adopts and/or modifies the model codes issued nationally. These regulations contain provisions relative to construction site fire and life safety, and based on national model codes are relatively consistent across the country. However, there are some differences.

The Provinces are also responsible for regulating worker and worksite safety and developing occupational health and safety regulations, which in some cases contain regulations relative to construction site fire and life safety. However, these regulations are not based on a common national model resulting in a diversity of provisions.

Several guidelines and interpretations to the application of the construction and fire regulations have been provided by trade associations and cities to facilitate local application.

The regulations and guidelines to be compared are discussed in more detail in the following sections of this report.

## 2.1.1 Construction Regulations

Construction regulations are intended to cover the fire and life safety aspects of a building at the time of construction. Typically these do not apply once a building is occupied, unless the building is undergoing alteration. The majority of the construction regulations in Canada include provisions relative to protection of the public at construction sites. The following construction regulations are included in the comparison:

- Part 8, 2010 National Building Code of Canada
- Part 8, 2014 Vancouver Building By-law
- Part 8, 2006 Alberta Building Code

Provinces and territories who have adopted Part 8 of the 2010 National Building Code of Canada with little or no modification relative to the fire and life safety on construction sites are:

- British Columbia
- Saskatchewan
- Manitoba
- Quebec
- New Brunswick
- Newfoundland and Labrador
- Northwest Territories
- Nova Scotia
- Nunavut

- Yukon
- Prince Edward Island

The 2012 Ontario Building Code does not include requirements for fire and life safety at construction sites.

### 2.1.2 Fire Regulations

Fire regulations are intended to cover fire and life safety operations and on-going maintenance of existing buildings. The majority of fire regulations include provisions relative to fire and life safety of construction sites including operations taking place at those sites. The following fire regulations are included in the comparison:

- Section 5.6, 2010 National Fire Code of Canada
- Section 5.6, 2012 British Columbia Fire Code
- Section 5.6, 2006 Alberta Fire Code

Provinces and territories who have adopted Section 5.6 of the 2010 National Fire Code of Canada with little or no modification are:

- Saskatchewan
- Manitoba
- Quebec
- New Brunswick
- Newfoundland and Labrador
- Nova Scotia
- Yukon
- Northwest Territories

The 2012 Ontario Fire Code does not include requirements for fire and life safety at construction sites. However fire and life safety requirements are prescribed for demolition (2014 Ontario Fire Code, Part 8) and precautions during repairs or renovations (2014 Ontario Fire Code, Article 2.6.1.10).

Nunavut and Prince Edward Island have not adopted fire regulations that address the scope of fire and life safety at construction sites.

#### 2.1.3 Occupational Health and Safety Regulations

Occupational health and safety (OHS) regulations are primarily focused on protection of workers and others present at workplaces. Worker safety tends to be addressed for construction sites by generally applicable provisions. However, some regulations address construction sites through specific provisions. The following OHS regulations are included in the comparison:

- British Columbia Occupational Health and Safety Regulation
- Alberta Occupational Health and Safety Code
- Saskatchewan Occupational Health and Safety Regulations
- Manitoba Workplace Safety and Health Regulation
- Ontario Occupational Health and Safety Regulation, Construction Projects
- Quebec Act Respecting Occupational Health and Safety
- Newfoundland and Labrador Occupational Health and Safety Regulations
- Nova Scotia Occupational Safety General Regulations
- New Brunswick Workers' Compensation Regulation
- Prince Edward Island Occupational Health and Safety Act, General Regulations

- Yukon Occupational Health Regulations
- Northwest Territories Occupational Health & Safety Regulations

#### 2.1.4 Jurisdiction Specific Guidelines/Interpretations

Several cities in Canada have published guidance relative to fire and life safety at construction sites, or interpretations of provincial regulations. These guidance/interpretation documents are not necessarily mandatory instruments, but primarily intended to supplement the mandatory construction/fire regulations. The following guidelines/interpretations are included in the comparison:

- City of Surrey, Surrey Fire Service, "Construction Fire Safety Plan Bulletin".
- City of Calgary, Fire Prevention Bureau, "Calgary Fire Marshal Bulletin Regarding: Alberta Fire Code (AFC) Article 5.6.1.2. Protection of Adjacent Building".
- City of Calgary, "Practical Guide for Construction Sites in Calgary: A Guide to Roles, Responsibilities and Legislation Governing Construction and Demolition in Calgary".
- Alberta Safety Codes Council, Fire Code Interpretation, FCI-09-02, "Protection of Adjacent Building".
- Alberta Safety Codes Council, Fire Code Interpretation, FCI-09-03, "FIRE SAFETY PLAN Construction and Demolition Sites".
- City of Calgary, Regulation Bulletin, "RB06-005: Use of Chain-Link for Fencing and Barricading Construction Sites".

A more complete list is included in **Section 6.1** and **Appendix E**, **Table 10**.

#### 2.2 COMPARISON FRAMEWORK

As noted previously in this report, the breadth and diversity of regulations addressing construction site fire and life safety is significant across Canada and these regulations are not uniform. This lack of uniformity complicates a direct comparison of provisions. Therefore, an objective-based framework following the Fire Safety Concepts Tree detailed in NFPA 550, "Guide to the Fire Safety Concepts Tree" is proposed. This framework provides a structured means to relate fire prevention and fire damage control strategies of differing regulations/guidelines within a common fire safety objectives structure.



Figure 1: Top levels of the Fire Safety Concepts Tree [1].

The structure of the Fire Safety Concepts Tree, shown in **Figure 1**, facilitates risk-based analyses of the interrelation, importance and redundancy of strategies. This is achieved through hierarchical logic relationships of fire safety concepts. The logic relationships are either "and" or "or" gates. An "and" gate (shown by a dot in a circle) indicates that all of the concepts below it are required to achieve the concept above, whereas an "or" gate (shown by a plus sign in a circle) indicates that any of the concepts below it are required to achieve the concept above. Note that there are no "and" gates in the higher level concepts of the tree shown in **Figure 1**, but they are included in certain lower levels of the tree (See **Appendix A**).

The NFPA 550 Fire Safety Concepts Tree has been used in this report to methodically analyze the fire and life safety requirements for the building regulations, fire regulations, OHS regulations and supplementary documents from jurisdictions. The top levels of the Fire Safety Concepts Tree have been used with modifications (by the report authors) appropriate to the application of the framework to life and fire safety at construction sites.

Thus, all provisions related to preventing ignition by limiting smoking, for example, will be categorized under "Prevent Fire Ignition" and further categorized under "Control Heat-Energy Source(s)". This allows for an examination between the provision intended to "Prevent Fire Ignition" and those intended to "Manage Fire Impact", which – following the logic of the Concepts Tree – are considered redundant (i.e., conservative) in achieving the overall objective of fire and life safety on construction sites. The result of such an examination is to qualify the importance of certain provisions as they relate to other provisions and the overall objective(s) of limiting fire and life safety risk on construction sites. Such an examination exercise is outside the scope of this report, but highlights the advantage and intent of providing the information in the proposed context.

The provisions from the regulations and guidance documents are tabulated in **Appendix B** to this report with the Fire Safety Concept Tree objectives/concepts in rows and the corresponding regulations/ guidance documents in columns. Single or groups of provisions are included in each of the table cells corresponding with the tree concept and the document from which the provisions are sourced. Additional levels of the Fire Safety Concepts Tree are included as **Appendix A** to this report for information purposes, but are not utilized in this report.

A visual demonstration of the mapping of the top levels of the NFPA 550 Fire Safety Concepts Tree to the table format that is used to present the analysis of the Canadian, provincial, territorial and local codes, regulations and supplementary documents related to course of construction life and fire safety is depicted in **Figure 3**.

The Fire Safety Concepts Tree does not address administrative activities that support achieving the Concept Tree objectives. These administrative functions include education, training, legislation and enforcement accomplished through various means and illustrated through an Administrative Action Tree in NFPA 550, shown in **Figure 2**.



Figure 2: Administrative Action Tree [1].

Utilization of the Administrative Action Tree in addition to the Fire Safety Concepts Tree would add an unnecessary level of complexity to the analysis of the regulations and guidance documents. Therefore, administrative functions were included as part of the Fire Safety Concepts Tree. Two components were added:

- "Systems & Operational Readiness" was added to the "Manage Fire" branch to account for management of the utilities, etc. that would influence the "Suppress Fire" concept; and,
- "Awareness and Ability" was added to the "Manage Exposed" branch to account for sitespecific training and provision of fire safety plans that would complement the concept of "Safeguard Exposed".

In order to link the specific provisions in each of the regulations and guidance documents, elements were attributed to each of the top level tree concepts as follows:

Under the concept of "Control Heat Energy Source(s)" are the elements of:

- Smoking,
- Limit Unauthorized Access, and
- Other.

Under the concept of "Control Source-Fuel Interactions" are the elements of:

- Hot work,
- Electrical,
- Heater, and
- Other.

Under the concept of "Control Fuel" are the elements of:

- Flammable and combustible liquids,
- Compressed gas,
- Housekeeping/waste, and
- Storage of combustibles.

Under the concept of "Control Combustion Process" are the elements of:

• Fire Extinguishers.

Under the concept of "Suppress Fire" are the elements of:

- Fire Department,
- Access,
- Standpipe,
- Hydrant, and
- Sprinklers.

Under the concept of "Control Fire by Construction" are the elements of:

- Compartment, and
- Building.

Under the concept of "System & Operational Readiness" are the elements of:

• Water supply.

Under the concept of "Limit Amount Exposed" are the elements of:

- Limit unauthorized access,
- Detection Manual, and
- Detection Automatic.

Under the concept of "Safeguard Exposed" are the elements of:

- Detection Manual,
- Detection Automatic,
- Alarm, and
- Egress.

Under the concept of "Awareness and Ability" are the elements of:

- Construction process and procedure,
- Site inspection, and
- Training.

These elements are included in the mapping schematic shown in Figure 3.



Figure 3: Schematic of the mapping of the top levels of the NFPA 550 Fire Safety Concepts Tree to the tabular presentation of the Canadian codes, regulations and supplementary documents relating to fire and life safety at course of construction.

Brief Description of Concept Element that is Used to Map Requirements

"Control the relationships of source and fuel so as to limit the heat communicated from the source to the fuel in order that fuel temperature

"Influence the combustion process by pre-ignition control of the inherent or situational characteristics of the fuel." (NFPA 550, P.3.3.11)

"Control the growth of the fire and movement of fire products by performing actions involving building construction features and build-in

Limit amount of general public being exposed in and around site in consideration of lack of site-specific awareness and ability

'Act upon the exposed and the immediate surroundings of the exposed to protect the exposed against fire impacts." (NFPA 550, P.3.3.50)

## 3.0 RESULTS OF COMPARISON

Comparisons of the content of the national, provincial and territorial regulations relating to construction site fire and life safety using the NFPA 550 Fire Safety Concepts Tree approach are included in this report as follows:

- Construction regulations are included in **Table 1** in **Appendix B**.
- Fire regulations are included in **Table 2** in **Appendix B**.
- Occupational health and safety regulations are included in Appendix C for:
  - British Columbia and Alberta included in Table 3,
  - Manitoba and Ontario included in **Table 4**,
  - Newfoundland and Labrador, and New Brunswick included in Table 5, and
  - Prince Edward Island and Yukon included in **Table 6**.

The order in which the local jurisdiction requirements relating to construction site fire and life safety using the NFPA 550 Fire Safety Concepts Tree approach are included in **Appendix D** is:

- Alberta Standata and notices and Calgary, AB, Bulletins are presented in Table 7, and
- Ottawa and Toronto, ON, by-laws are presented in **Table 8**.

## 4.0 DISCUSSION

The following sections of this report summarize key observations of the provisions for each of the regulations/guides based on the identified function groups. These are discussed in more detail in the following sections of this report.

## 4.1 CONSTRUCTION REGULATIONS (BUILDING CODES)

The primary objective of the construction regulations relative to construction sites is to protect the general public from activities and hazards associated with construction sites; therefore, they do not generally address the range of considerations laid out in the NFPA 550 Fire Safety Concepts Tree.

The focus of these regulations is towards limiting and mitigation of waste-related issues and unnecessary access to the site. This is observed with focus on the element of "Housekeeping/Waste" within the concept of "Control Source-Fuel Interactions" and "Limit Unauthorized Access" within "Manage Exposed" and "Control Source-Fuel Interactions". The focus on these concepts reflects the perspective of fire and life safety from an external perspective, whereby protection of the public and the surrounding environment is the more dominant focus.

#### 4.2 FIRE REGULATIONS (FIRE CODES)

The fire regulations are intended to apply to "fire safety for buildings, parts of buildings, facilities, adjacent buildings or facilities, and associated areas undergoing construction, alteration or demolition operations" [2010 NFC, Division B, Sentence 5.6.1.1.(1)] and includes consideration of life safety of those who may be impacted by activities on the site. This is a broad scope of application relative to the construction site regulations, and as a result addresses a greater degree of risk through broader provisions.

These regulations provide a more even balance across the NFPA 550 tree than is observed from the results of the analysis of the construction regulations. However the analysis of the fire regulations indicated a greater focus on the branches of "Prevent Fire Ignition", "Manage Exposed" and "Awareness and Ability" than other concepts. The focus on these concepts and development of associated provisions is likely a result of a response to significant construction site fires that have occurred over the last several decades.

#### 4.3 OCCUPATIONAL HEALTH AND SAFETY REGULATIONS

The majority of occupational health and safety regulations do not have provisions specific to fire and life safety on construction sites. General fire and life safety provisions within these regulations, applicable to all workplaces, can be applied and are quite relevant to construction sites. An example is the egress provisions. It is primarily these more general provisions, with the exception of the regulations that have construction-site-specific provisions, that have been summarized in the tables included in **Appendix C** of this report.

The primary purpose of occupational health and safety regulations is to safeguard workers and others occupying a workplace. As a result, the provisions of these regulations are more specific to achieving life safety or indirectly achieving life safety by limiting ignition, growth and spread of fire. For example, most of the occupational health and safety regulations have detailed provisions for worker egress, including emergency lighting, but only a few address provision of standpipes and none address firefighting access.

Similar to the construction codes, the occupational health and safety regulations have a narrow fire and life safety focus compared to the results of the analysis of the fire regulations. This is primarily a result of the purpose of the occupational health and safety and construction regulations, which is protection of workers on a construction site and protection of the general public who may interface with a construction site. In contrast, fire regulations address construction sites, adjacent sites and occupants on or adjacent to the site who may be impacted by construction activities on the site.

The Ontario Occupational Health and Safety Regulation has specific provisions relative to construction sites, which are the most comprehensive of the occupational health and safety regulations reviewed.

## 4.4 JURISDICTION SPECIFIC GUIDELINES/INTERPRETATIONS

Jurisdiction specific guidelines and interpretations are intended to facilitate compliance with the applicable regulations, and the need for these guidelines and interpretations tends to be geographically dependent or follow the occurrence of a specific incident or incidents. Thus, there is no single theme among them. However, their existence suggests increased concern relative to specific risk(s), and can be utilized to identify these risks.

The comparison analysis indicates that the focus of by-laws, interpretations, and guidelines is on the most subscribed elements - more specifically, focusing on the concepts of "Limit Amount Exposed", "Control Fuel", and "Awareness and Ability"; and even more specifically, the elements of "Limit Unnecessary Access", "Housekeeping/Waste" and "Construction Process and Procedure". These supplementary documents provide an opportunity to address the less subscribed elements of the tree. For example, the discussion related to the element "Building" within the concept of "Control Fire by Construction", as presented by the Calgary Fire Marshal Bulletin, Regarding: Alberta Fire Code 2006 Article 5.6.1.2., Protection of Adjacent Building, May 14, 2010. This element is not a focus of most of the fire regulations reviewed, and therefore the Calgary Fire Marshal Bulletin indicates the potential for a local interpretation of the application of the fire regulations.

## 5.0 CONCLUSION

This report has provided a detailed summary of the construction, fire, occupational health and safety regulations and jurisdictional guidelines/interpretations relative to fire and life safety on construction sites. The detailed mapping summaries have been organized based on these four primary functions within a framework consistent with the NFPA 550 Fire Safety Concepts Tree to facilitate future risk-based analyses of the provisions.

A review of the provisions within the above-noted context indicates several trends that can be summarized as follows:

- Fire and life safety on construction sites in Ontario is primarily addressed through the occupational health and safety regulation.
- The latest Vancouver Building By-law incorporates the provisions typical to both Part 8 of the construction regulations and Subsection 5.6 of the fire regulations into Part 8 of the By-law.
- The construction regulations and occupational health and safety regulations are narrow in their focus relative to the breadth of the fire safety tree concepts. The fire regulations are more broadly applicable relative to the fire safety concepts tree; however, the focus is still weighted towards the concepts of "Awareness and Ability" (especially through the element of "Construction Process and Procedure"), "Limit Amount Exposed" (particularly for element of "Limit Unauthorized Access") and "Control Fuel" (particularly for the "Housekeeping/Waste" element).
- Jurisdiction specific guidelines and interpretations provide insight into geographic and incidentspecific focus and local interpretations of regulatory provisions relative to construction site fire and life safety.
- Construction site provisions are typically presented in tandem with demolition site provisions. The basis for fire and life safety provisions would not necessarily be similar for both. The fire hazards and applicable scenarios for construction and demolition sites may vary significantly. If they are similar, then previous fire safety experience from demolition site applications may be a useful resource for course site fire safety. However if they are dissimilar, then different fire safety design and strategies may be more appropriate to address the dissimilar items. Mapping the fire hazards and current fire and life safety provisions for construction sites to those of demolition sites could assist to identify the similarities and differences.
- The overriding focus of the regulations and guidance documents reviewed relate to "Prevent Fire Ignition", and the administrative functions that support this element. There is much less focus on elements that support reducing the consequences (i.e., "Manage Exposed") of a fire once ignition has occurred such as "Control Fire by Construction", "Suppress Fire" and "System & Operational Readiness".

The observations summarized above suggest a divergence of provisions relative to a comprehensive solution to reducing the risk to fire and life safety for construction sites. Quantification of this divergence and means to establishing a comprehensive set of cohesive provisions can be assessed through a systemic risk analysis as outlined in Chapter 7 of NFPA 550, supplemented with evidence-based data to identify key concepts and relationships between concepts. This type of analysis can assist with qualifying the effectiveness of certain provisions and groups of provisions in reducing the risk of significant fire incidents on construction sites.

## 6.0 SOURCES OF INFORMATION

#### 6.1 **REGULATION AND GUIDANCE DOCUMENTS**

A list of the regulation and guidance documents that have been used in the preparation of this report is summarized in **Appendix E**, **Table 10** (arranged by jurisdiction and document type). Where online versions of the document were publically available at the time of preparation of this report, an electronic link is included.

2011 Good Building Practice for Northern Facilities Updated March 5, 2012, Government of the Northwest Territories Public Works and Services, Canada.

Alberta Building Code 2006, National Research Council of Canada, Ottawa, Canada.

- Alberta Code Explanation Guide, Published on July 01, 2009, Legislative Assembly of Alberta, Edmonton, AL, Canada.
- Alberta Code, Published on July 01, 2009, Legislative Assembly of Alberta, Edmonton, AL, Canada.

Alberta Fire Code 2006, National Research Council of Canada, Ottawa, ON, Canada.

- Alberta Municipal Affairs, Fire Code Interpretation, Standata 06-BCB-002-R1, July 2008, Occupancy of Buildings under Construction, Alberta Municipal Affairs, Edmonton, AL, Canada.
- Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-09-01, July 2009, Water Supplies and Access for Fire Fighting, Alberta Municipal Affairs, Edmonton, AL, Canada.
- Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-09-02, July 2009, Protection of Adjacent Building, Alberta Municipal Affairs, Edmonton, AL, Canada.
- Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-09-03, November 2009, Fire Safety Plan - Construction and Demolition Sites, Alberta Municipal Affairs, Edmonton, AL, Canada.
- Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-12-01, May 2012, Application Alberta Fire Code, Alberta Municipal Affairs, Edmonton, AL, Canada.
- Alberta OHS Act, Published on October 01, 2013, Legislative Assembly of Alberta, Edmonton, AL, Canada.
- Alberta Regulation, Published on October 01, 2013, Legislative Assembly of Alberta, Edmonton, AL, Canada.
- British Columbia Building Code 2012, Office of Housing and Construction Standards & National Research Council Canada, Ottawa, ON, Canada.
- British Columbia Fire Code 2012, Office of Housing and Construction Standards & National Research Council Canada, Ottawa, ON, Canada.

Building Code – 1985 Regulation, Chapter S-2.1, r.O.1), Province of Quebec, Canada.

- Buildings and Mobile Homes Act (C.C.S.M. c. B93) Regulation 31/2011, Manitoba Government, Winnipeg, MB, Canada.
- Calgary Fire Marshal Bulletin, Regarding: Alberta Fire Code 2006 Article 5.6.1.2 Protection of Adjacent Building, May 14, 2010, Calgary, AL, Canada.
- Canada Occupational Health and Safety Regulations, SOR/86-304, Last amended on May 29, 2014.
- Charlottetown Area Municipalities Building Code Bylaw, Amended/Approved June 13, 2011, Charlottetown, PI, Canada.
- Charlottetown Area Municipalities Fire Prevention Bylaw, Amended/Approved February 13, 2012, Charlottetown, PI, Canada.
- Charlottetown Area Municipalities Fire Protection and Emergency Services Bylaw, Amended/Approved March 09, 2009, Charlottetown, PI, Canada.
- City of Calgary Fire Department, Fire Prevention Bureau, Fire Department Access Standard, October 23, 2008, Calgary, AL, Canada.

- City of Calgary Regulation Bulletin, RB06-005, Issued November 14, 2008, Previously I-47, Use of Chain-Link or Fencing and Barricading Construction sites, Calgary, AL, Canada.
- City of Calgary, Advisory Bulletin, April 2012, Public Protection Site Safety Plan, Calgary, AL, Canada.

City of Halifax By-law B-201, Building, Passed April 14, 1998, Halifax, NS, Canada.

- City of Iqaluit, By-Law No.620, Iqaluit Building By-Law, Passed on November 8, 2005, Iqaluit, NU, Canada.
- City of Iqaluit, By-Law No.710, Iqaluit Building By-Law, Iqaluit, NU, Canada.
- City of Ottawa By-Law No. 2005-208, Property Maintenance By-Law, Enacted May 11, 2005, Ottawa, ON, Canada.
- City of Ottawa BY-LAW NO. 2013-416, A by-law of the City of Ottawa to provide for standards under which properties are maintained, Enacted December 11, 2013, City Council Authority CPSC Report 26, Item 6, Ottawa, ON, Canada.
- City of Vancouver Bulletin 2002-001-EV, Construction Site Wastes, April 19, 2007 (Revised), Community Services Group, Office of the Chief Building Official, Vancouver, BC, Canada.
- City of Vancouver Bulletin 2011-0003-AD, May 10, 2011, WorkSafeBC Compliance or Refusal of Inspection Service, Office of the Chief Building Official, Vancouver, BC, Canada.
- City of Vancouver, Bulletin 2004-002 EL April 19, 2007, Permits for Temporary Power Service Connection, Community Services Group, Office of the Chief Building Official, Vancouver, BC, Canada.
- City of Vancouver, Bulletin 2012-001-BU, March 29, 2012, Revised October 29, 2012, Demolition of Buildings, Community Services Group, Licenses and Inspections, Vancouver, BC, Canada.
- City of Vancouver, Construction of New buildings/Addition to Existing Buildings, Vancouver, BC, Canada.
- City of Winnipeg By-Law no. 150/2004, The Fire Prevention By-Law, Passed on October 27, 2004, with Amendments up to July 16, 2014, Winnipeg, MB, Canada.
- City of Winnipeg By-law NO. 4304/86, Residential Buildings Fire Safety, Enacted April 30, 1986, with Amendments to March 23, 2011, Winnipeg, MB, Canada.
- City of Winnipeg By-law No. 4555/87, The Winnipeg Building by-Law, Enacted 1987, with Amendments to March 21, 2012, Winnipeg, MB, Canada.
- City of Yellowknife Consolidation of Building By-law No. 4469, Adopted January 28, 2008, Yellowknife, NT, Canada.
- District of North Vancouver Fire Bylaw, Bylaw 7581, Effective date June 21, 2004, Date of adoption December 12, 2012, North Vancouver, BC, Canada.
- Halifax Regional Municipality By-Law Number F-100, Respecting Fire Prevention, Passed on December 17, 1996, with amendments to September 23, 2003, Halifax, NS, Canada.
- High-Intensity Residential Fires Working Group, Final Report, October 31, 2007, Alberta Municipal Affairs and Housing, Edmonton, AL, Canada.
- Manitoba Buildings and Mobile Homes Act, 2012, B93, Manitoba Government, Winnipeg, MB, Canada.
- Manitoba Workplace Safety and Health Act C.C.S.M. c. W210, In force on 1 April 2014, Province of Manitoba, Canada.
- Manitoba Workplace Safety and Health Act and Regulation 2014, Province of Manitoba, Canada. (Office Consolidated)
- Manitoba Workplace Safety and Health Regulation, The Workplace Safety and Health Act C.C.S.M. c. W210, M.R. 217/2006, In force on 1 April 2014, Province of Manitoba, Canada.

Manitoba WSH Act and Regulations,

- National Building Code of Canada, 2010, Canadian Commission on Building and Fire Codes, National Research Council of Canada, Ottawa, Canada.
- National Fire Code of Canada, 2010, Canadian Commission on Building and Fire Codes, National Research Council of Canada, Ottawa, ON, Canada.

- New Brunswick Chapter O-0.2 Occupational Health and Safety Act, Assented to August 05, 1983, Province of New Brunswick, Canada.
- New Brunswick Chapter W-14 Workplace Health, Safety and Compensation Commission Act, assented to December 16, 1994, Province of New Brunswick, Canada.
- New Brunswick Regulation 82-20, 1982 (Consolidated to December 1, 2011), Province of New Brunswick, Canada.

New Brunswick Regulation 84-26, Administration, Occupational Health and Safety Act (O.C. 84-111), Province of New Brunswick, Canada.

- New Brunswick Regulation 91-191, General Regulation, Occupational Health and Safety Act (O.C. 91-1035), Filed December 03, 1991, Province of New Brunswick, Canada.
- Newfoundland and Labrador regulation 2012, regulation 45/12, Fire Protection Services Regulations, Part I Adoption of Codes, Dated April 30, 2012, St John's, Newfoundland and Labrador, Canada.
- Newfoundland and Labrador Regulation 5/12, Occupational Health and Safety Regulations, 2012, Dated January 17, 2012, St John's, Newfoundland and Labrador, Canada.
- Nova Scotia Building Code Regulations, 2013, Part 3, Province of Nova Scotia.

Nova Scotia Fire Safety Regulations, 2013, Province of Nova Scotia.

- Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.
- Nunavut Building Code Act, 2012, S.Nu. 2012, c.15, Current to May 7, 2014, Iqaluit, NU, Canada.
- NWT Fire Prevention Act and Regulations, Amended by Northwest Territories Statues S.N.W.T. 1995, c.11; and Nunavut Statues: S.Nu. 2006, c.8, in force June 15, 2006. Government of Nunavut, Iqaluit, NU, Canada.
- Occupational Health and Safety Act, Ontario Regulation 213/91, Construction Projects, Consolidated from April 8, 2013, Province of Ontario, Canada.
- Occupational Health and Safety Regulations, 1996, Chapter O-1.1 Reg 1, Effective from December 4, 1996, including Amendments up to and including Saskatchewan Regulations 5/2014, Province of Saskatchewan, Canada.
- Ontario Building Code, 2012, Ministry of Municipal Affairs and Housing Building and Development Branch, Ontario, Canada.
- Ontario Regulation 213/07, 2007, Fire Protection and Prevention Act, Province of Ontario, Canada.
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- Saskatchewan Uniform Building and Accessibility Standards Act, Chapter U-1.2 of the Statutes of Saskatchewan, 1983-84, including Amendments to 2013 c.27, Province of Saskatchewan, Canada.
- The Fires Prevention and Emergency Response Act (C.C.S.M. c.F80), Regulation 155/2011, Manitoba Government, Winnipeg, MB, Canada.
- Toronto Municipal Code Chapter 363, Building Construction and Demolition, Enacted September 9, 2011, Toronto, ON, Canada.
- Toronto Municipal Code Chapter 629, Building Construction and Demolition, Enacted September 9, 2011, Toronto, ON, Canada.
- Vancouver Building By-Law No. 10908, A By-law to regulate the construction of buildings and related matters and to adopt the British Columbia Building Code, The Council of the City of Vancouver (Enacted 1 April, 2014), Vancouver, BC, Canada.
- Vancouver Fire By-law No. 8191, A by-law respecting the prevention and suppression of fire, the regulation of dangerous goods and explosives and the administration of the fire department (2002 with Amendments to July 22, 2014), Vancouver, BC, Canada.
- WorkSafeBC, Part 20 Construction, Excavation and Demolition, 2013, Workers' Compensation Board of British Columbia.

Yukon Building Standards Act, Chapter 19, Revised Statutes of the Yukon 2002, Whitehorse, YT. Yukon Occupational Health Regulations, Yukon Territory, Canada.

#### 6.2 ADDITIONAL REFERENCES

The following sources of information have been used in the preparation of this report.

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# Lower Level Fire Safety Concept Tree Branches



Figure A.1: Prevent fire ignition branch of the Fire Safety Concepts Tree [1].



Figure A.2: Manage fire branch of the Fire Safety Concepts Tree [1].



Figure A.3: Manage exposed branch of the Fire Safety Concepts Tree [1].



# Summary Tables for Construction and Fire Regulations

## Table 1: Construction Regulations Comparison

Framework Categories	2010 NBCC	2014 Vancouver Building By-Law
Prevent Fire Ignition		
Control Heat-Energy Source(s)		
Smoking		8.2.6.15. Smoking Restrictions on Construction Sites 1) Smoking shall only be permitted on construction sites in accordance with the
Limit Unauthorized Access (same as entry below, at *)		
Other		<ul> <li>8.2.6.8. Ignition Sources (See Appendix A.)</li> <li>1) Internal combustion engines, temporary heating equipment and other equip ignition shall be kept at a safe distance away from combustible materials.</li> <li>2) The clearance between combustible materials and temporary heating equipr be in conformance with Part 6 or in conformance with the minimum clearances equipment.</li> </ul>
Control Source-Fuel		
Hot Work		<ul> <li>8.2.6.7. Hot Surface Applications</li> <li>1) Roofing operations and other surface applications that involve heat sources a considered hot works and shall conform to the requirements in the Fire By-law.</li> <li>2) Bitumen kettles shall not be located on roofs, and shall be</li> <li>a) provided with a close-fitting cover constructed of steel with a minimum thick gauge,</li> <li>b) under constant supervision when in operation, and</li> <li>c) maintained free of excessive residue.</li> </ul>
Electrical		8.2.6.9. Utility Services to Buildings under Construction 1) Except as required in Sentence (3) and except for water supplies for firefighti terminated at a point located outside the building undergoing deconstruction o
Heater		
Other		<ul><li>8.2.6.19. Temporary Enclosures on Construction Sites</li><li>1) Fabrics and films used to temporarily enclose Buildings shall be securely faste with heaters or other ignition sources.</li></ul>
Control Fuel		
Flammable and combustible liquids		8.2.6.10. Fuel Supply Installation 1) Fuel supplies for heating equipment and internal combustion engines shall co a) CAN/CSA-B139-M, "Installation Code for Oil-Burning Equipment," or b) the British Columbia Gas Safety Regulation.
		8.2.6.11. Safety of Fuel Tanks and Piping at Construction Sites 1) Fuel tanks and piping at a deconstruction or demolition site which contain or flammable or combustible liquids or vapours shall be decommissioned in confo law.
		<ul> <li>2) Fuel tanks and piping at a deconstruction or demolition site which contain or flammable or combustible liquids or vapours shall be drained or vented and rendeconstruction or demolition of a building, except as permitted by Sentence (3)</li> <li>3) Where it is impracticable to remove fuel tanks or piping from the construction deconstruction or demolition of a building, such equipment shall be tagged for as soon as conditions permit.</li> <li>4) Fuel tanks and piping referred to in Sentences (1), (2) and (3) shall be purged</li> </ul>

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Framework Categories	s 2010 NBCC	2014 Vancouver Building By-Law	2006 ABC
Compressed Gas			
Housekeeping/waste	8.2.5.1. Control of Waste Material 1) Waste material or other material shall not be permitted to fall freely from one storey to another.	Same as 2010 NBCC	Same as 2010 NBCC
	<ul> <li>8.2.5.2. Removal of Waste Material</li> <li>1) Waste material shall be removed as quickly as possible by means of</li> <li>a) appropriate containers,</li> <li>b) an enclosed shaft or chute conforming to Sentence 8.2.5.4.(1), or</li> <li>c) a hoisting apparatus if large pieces or objects are involved.</li> </ul>		
	8.2.5.3. Enclosures for Waste Material	Similar wording to 2010 NBCC	Same as 2010 NBCC
	<ul> <li>a) waste material cleared as provided in Sentence 8.2.5.2.(1) shall be deposited in an enclosure</li> <li>a) so arranged as to prevent waste material from being projected beyond the confines of the enclosure, and</li> <li>b) not accessible to the public.</li> </ul>	8.2.5.3. Enclosures for Waste Material 1) Waste material removed in accordance with Sentence 8.2.5.2.(1) shall be deposited in a container which is a) designed to ensure that waste material cannot escape from the container, and	
		b) secure and inaccessible to the public.	
	<ul> <li>8.2.5.4. Chutes for Waste Material</li> <li>1) The chute described in Clause 8.2.5.2.(1)(b) shall be closed if it is inclined more than 45° to the horizontal.</li> </ul>	Same as 2010 NBCC	Same as 2010 NBCC
		<ul> <li>8.2.5.5. Disposal of Waste Material</li> <li>1) Except as provided in Sentence (2), all waste material on a construction site shall be sorted, diverted and disposed of in a manner satisfactory to the Chief Building Official (see Appendix A.)</li> <li>2) Sentence (1) does not apply to</li> <li>a) proposed work of a value of \$50,000 or less, and</li> </ul>	8
		b) corrective measures or immediate measures carried out by the Chief Building Official in accordance with Articles 1.5.3.4. and 1.5.3.5.	
Storage of Combustibles		<ul><li>8.2.6.7. Hot Surface Applications</li><li>3) Mops used to spread bitumen shall be stored in a safe location at a safe distance away from buildings, when not in use.</li></ul>	
		<ul> <li>8.2.6.18. Storage and Use of Dangerous Goods on Construction Sites</li> <li>1) Combustible liquids and flammable liquids shall be stored and used in conformance with the Fire By-law</li> <li>2) Dangerous goods and materials shall be stored in conformance with the Fire By-law.</li> <li>3) Dangerous goods and materials shall be used in conformance with the Fire By-law.</li> </ul>	
		8.2.6.20. Storage of Combustible Refuse 1) Combustible refuse shall be stored a safe distance away from buildings, and at a safe location. (See also Subsection 8.2.5.)	
Manage Fire Impact			
Manage Fire			
Control Combustion Process			
Fire Extinguishers		<ul> <li>8.2.6.5. Portable Extinguishers</li> <li>1) Portable extinguishers shall be provided in unobstructed locations in all areas where</li> <li>a) hot work operations are carried out,</li> <li>b) combustibles are stored,</li> <li>c) internal combustion engines are located,</li> <li>d) flammable liquids and combustible liquids</li> </ul>	

Framework Categories	2010 NBCC	2014 Vancouver Building By-Law
		e) temporary fuel-fired equipment is used.
		2) Portable extinguishers required by Sentence (1) shall have a minimum rating
		a) 2-A:10-B:C on moveable equipment, and
		b) 4-A:40-B:C in all other locations.
Suppress Fire		
Fire Department		
Access		8.2.6.4. Access for Firefighting
		1) Onobstructed access to fire hydrants, portable extinguishers and fire departments
		2) Eirefighters shall be provided with upobstructed access to all levels of the built
		3) Firefighters shall be provided with unobstructed access to all elevators hoists
		4) Firefighters shall be provided with unobstructed access to access routes for fi
		5) Where a construction site is enclosed by fencing, boarding or barricades, firef
		with 24 hour emergency access for fire department equipment and personnel.
Standpipes		8.2.6.6. Standpipe Systems (See Appendix A.)
		1) Where a standpipe system is installed in a building under construction, the sta
		installed progressively, in conformance with Subsection 3.2.5. of Division B of th
		portions of a building.
		2) Where a standpipe system is to be installed progressively in unoccupied porti
		construction, a permanent or temporary standpipe system is permitted, and the
		nave
		a) conspicuously marked and readily accessible fire department connections on
		h) at least one hose outlet at each floor
		c) pipe size, hose valves and water supply conforming to Subsection 3.2.5, of Div
		d) as a minimum, secure supports and restraints on alternate floors,
		e) at least one hose valve for attaching fire department hose at each intermedia
		the exit stairway, and
		f) valves which are kept closed and protected from mechanical damage at all tim
		3) A standpipe system installed in accordance with Sentence (2) shall be progres
		no more than one floor below the highest forms, staging, and similar combustib
		all times.
		4) A temporary standpipe system shall remain in service until the installation of
		system is complete.
		5) If a building equipped with a standpipe system is being deconstructed of dem
		operable condition at all times on all storeys, excent for the storey located imme
		being deconstructed or demolished.
		8.2.6.13. Protection During Fire Protection System Shutdown
		1) Except as permitted in Sentence (2), where a fire protection system is provide
		operational throughout the entire building during construction.
		2) If any portion of a fire protection system is temporarily shut down during con
		building shall comply with the Fire By-law.
Hydrants		8.2.6.4. Access for Firefighting
		1) Unobstructed access to fire hydrants, portable extinguishers and fire departm
Cur mine beller m		standpipe and sprinkler systems shall be maintained in all construction sites.
Sprinkler		
Construction		
Compartment		8 2 6 12 Fire Separations in Partly Occupied Buildings
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rtment connections for	
ouilding. ists or lifts in the building. r fire department vehicles. refighters shall be provided el.	
e standpipe system shall be this By-law, in occupied	
ortions of a building under the standpipe system shall	
on the outside of the building	
Division B of this By-law,	
diate landing or floor level in	
times. ressively installed so that it is tible construction materials at	
of the permanent standpipe	
emolished floor by floor, the shall be maintained in mediately below the storey	
vided, it shall remain	
construction, protection of the	
rtment connections for	

Framework Categories	2010 NBCC	2014 Vancouver Building By-Law
		1) Where part of a building under construction is occupied, the occupied part of
		separated from the part of the building under construction by a fire separation I
		rating of no less than 1 h.
Building		8.2.6.2. Protection of Adjacent Buildings
		1) Protection shall be provided for adjacent buildings that could be exposed to f
		buildings undergoing construction. (See Appendix A.)
Suppression System		
Readiness		
Water Supply		
Manage Exposed		
Limit Amount Exposed		
Limit Unauthorized Access	Section 8.2. Protection of the Public	Section 8.2. Protection of the Public
(same as entry above, at *)		
	8.2.1. Fencing and Barricades	8.2.1. Walkways, Fencing, Boarding and Barricades
	8.2.1.1. Covered Way Exceptions	8.2.1.1. Covered Walkways
	1) Where the construction may constitute a hazard to the public, work shall not commence on the	1) If construction of a building may cause a hazard for persons using the adjacen
	construction, alteration or repair of a building until a covered way has been provided as described	commence until a covered walkway has been provided on the sidewalk in accord
	in Article 8.2.1.2. to protect the public, except where	2) Despite the provisions of Sentence (1) a covered walkway is not required on a
	a) the work is done within a solid enclosure,	a) the work is carried out entirely behind fencing, boarding or barricades which s
	b) the building is at a distance of 2 m or more from a public way used by pedestrians, or	site from the sidewalk, or
	c) site conditions warrant a distance greater than provided in Clause (b).	b) the building is located no less than 2 m from a sidewalk used by pedestrians,
		Building Official may require a covered walkway for a site which contains a build
		from a sidewalk if, in the opinion of the Chief Building Official, site conditions so
	8.2.1.2. Covered Way Construction	8.2.1.2. Covered Walkway Construction
	1) A covered way shall	1) A covered walkway shall be
	a) have a clear height of not less than 2.5 m,	a) no less than 2.5 m in height,
	b) have a clear width of not less than 1.5 m or the width of the public way, whichever is the lesser,	b) no less than 1.5 m in width, or the width of the sidewalk, whichever is the less
	c) be designed and constructed to support safely all loads that may be reasonably expected to be	c) designed and constructed to support loads no less than 2.4 kPa on the roof,
	applied to it, but in no case less than 2.4 kPa on the roof,	d) designed and constructed to support all loads that may be applied to it,
	d) have a weathertight roof sloped towards the site or, if flat, be equipped with a splash board not	e) equipped with a weather tight roof sloped towards the site or a flat roof with
	less than 300 mm high on the street side,	300 mm high on the street side,
	e) be totally enclosed on the site side with a structure having a reasonably smooth surface facing	f) totally enclosed on the construction site side of the sidewalk,
	the public way,	g) constructed with a wall with a smooth surface facing the sidewalk,
	f) have a railing 1 070 mm high on the street side where the covered way is supported by posts on	h) equipped with a railing 1070 mm high measured from the walking surface and
	the street side, and	of the sidewalk if the covered walkway is supported by posts on the street side of
	g) be adequately lighted when the public way is lighted.	i) constructed with sufficient lighting to enable the public to walk safely through
		constructed on a sidewalk which is illuminated by overhead street lighting at nig
	8.2.1.3. Fencing, Boarding or Barricades	8.2.1.3. Fencing, Boarding or Barricades
	1) When a construction or demolition activity may constitute a hazard to the public and is located	1) If construction which may cause a hazard to the public is located 2 m or less fi
	2 m or less from a public way, a strongly constructed fence, boarding or barricade not less than	boarding or barricades no less than 1.8 m high shall be erected between the con
	1.8 m high shall be erected between the site and the public way or open sides of a construction	street.
	site.	2) Fencing, boarding or barricades erected in accordance with Sentence (1) shall
	2) Barricades shall have a reasonably smooth surface facing the public way and shall be without	facing the street and shall have no openings, except openings required for acces
	openings, except those required for access.	3) Deleted.
	3) Access openings through barricades shall be equipped with gates that shall be	4) Access openings through fencing, boarding or barricades erected in accordan
	a) kept closed and locked when the site is unattended, and	be equipped with gates that shall be
	b) maintained in place until completion of the construction or demolition activity.	a) closed and locked when the construction site is unattended. and
	· · · · · · · · · · · · · · · · · · ·	b) maintained in place until construction is completed.
	8.2.1.4. Special Hazards	8.2.1.4. Special Hazards
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of the building shall be on having a fire-resistance	
o fire originating from	
	Same as NBCC
cent sidewalk, work shall not cordance with Article 8.2.1.2. n a sidewalk if ch separate the construction is, except that the Chief uilding located more than 2 m	
so warrant.	
lesser, ; ith a splash board no less than	h) have, at each opening for pedestrian access, a gate not less than 1 200 mm high that can be locked or bolted in a closed position.
and located on the street side le of the sidewalk, and Igh any walkway which is night.	
is from a street, fencing, construction site and the	Same as NBCC
nall have a smooth surface cess to the construction site.	
ance with Sentence (1) shall	
	Same as NBCC

Framework Categories	2010 NBCC	2014 Vancouver Building By-Law
	1) Where any special hazard exists from which it is not possible to protect the public by other means, persons shall be employed to prevent the public from entering the danger zone at any time of the day or night.	1) If an unusual hazard exists on a construction site, security guards shall be posted days a week, to prevent public access to the area where the unusual hazard is locate
	8.2.1.5. Work Shutdown	8.2.1.5. Work Shutdown
	1) When work on a construction site is suspended or ceases so that it will not be occupied during normal working hours, the hazardous part of the construction site shall be protected by	1) All hazardous areas on a construction site shall be secured against unauthorized e workers are not present on the site.
	ground which may give access to the building with a securely fastened	<ul> <li>a) all windows, doors and other openings located within 3 m of the ground shall be sharricades, or</li> </ul>
	b) a fence or barricade constructed according to the requirements of Article 8.2.1.3.	b) fencing, boarding or barricades shall be constructed around the entire site in acco Article 8.2.1.3.
Detection – Manual (Fire Watch)		<ul> <li>8.2.6.14. Requirement for Fire Watch</li> <li>1) If a Building is partly occupied and part of the building is undergoing deconstructi watch shall be maintained at all times, unless the building is provided with an active</li> <li>2) A fire watch as required by Sentence (1) shall include:</li> <li>a) a complete tour of inspection of the site at least once every hour,</li> <li>b) facilities to provide a fire warning to occupants, to the satisfaction of the Chief Bucc) facilities to communicate with the fire department in the event of fire, to the satisfaction.</li> </ul>
Detection - Automatic		
Safeguard Exposed		
Detection – Manual (Fire Watch)		<ul> <li>8.2.6.14. Requirement for Fire Watch</li> <li>1) If a Building is partly occupied and part of the building is undergoing deconstructi watch shall be maintained at all times, unless the building is provided with an active</li> <li>2) A fire watch as required by Sentence (1) shall include:</li> <li>a) a complete tour of inspection of the site at least once every hour,</li> <li>b) facilities to provide a fire warning to occupants, to the satisfaction of the Chief Bucc) facilities to communicate with the fire department in the event of fire, to the satisfaction.</li> </ul>
Detection - Automatic		
Alarms		8.2.6.17. Fire Warning in Buildings under Construction 1) Facilities shall be provided to alert persons on a Construction site to the presence facilities shall be audible throughout the building.
Egress		<ul> <li>8.2.6.16. Egress from Buildings under Construction</li> <li>1) In buildings under construction, there shall be at least one Exit which is accessible times.</li> <li>2) In Buildings under construction there shall be least one stairway maintained in us times.</li> </ul>
Awareness and ability		
Construction process and	8.1.2.2. Protection from Risk	Same as NBCC
procedure	<ol> <li>Precautions shall be taken to ensure that no person is exposed to undue risk.</li> <li>Division B, Appendix A</li> <li>A-8.1.2.1.(1) Application The use of streets or public property and vehicular traffic during construction or demolition is normally controlled by regulations of authorities other than the building department (e.g., police department).</li> </ol>	
		8.1.3. Construction Safety Program
		<ul> <li>8.1.3.1. Requirements for Construction Safety Program</li> <li>1) Unless otherwise provided in Article 8.1.3.2., before the commencement of any c</li> <li>Construction Safety Program shall be submitted to the Chief Building Official.</li> </ul>

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d in usable condition at all	
	Same as NBCC

Framework Categories 2010 NBCC	2014 Vancouver Building By-Law	2006 ABC
	2) A Construction Safety Program shall include	
	a) the names and emergency phone numbers of the constructor, the coordinating registered professional	
	and the Construction Safety Officer,	
	b) details of the construction procedures relating to site access, traffic control, scaffolding and swing	
	stages, protection at excavations, hoisting equipment (including its location and scheduling), fire	
	protection facilities, material storage, waste material disposal, control of dust and debris, protection at the	
	perimeters of all floor levels, barricades, covered walkways and any other details required by the City	
	Engineer, the Chief Building Official or any other city official having jurisdiction, and	
	c) a construction site plan showing the location on the site of the equipment, facilities and safety measures	
	detailed in the Construction Safety Program in accordance with Clause (b).	
	3) The Construction Safety Program shall be amended from time to time to reflect the current stage of	
	construction.	
	8.1.3.2. Exemptions	
	1) A Construction Safety Program is not required for minor interior alterations contained within a suite or	
	for minor alterations or additions to a one-family dwelling, except that the Chief Building Official may	
	require a Construction Safety Program if, in the opinion of the Chief Building Official, the work may cause a	
	hazard for persons occupying the building, construction workers or the public.	
	8.1.3.3. Posting Requirements	
	1) No construction shall commence until a conv of the Construction Safety Program which complies with	
	this subsection is posted on the construction site in accordance with Sentence (2)	
	2) The conv of the Construction Safety Program required by Sentence (1) shall be	
	a) nosted on a plywood board measuring no less than 600 mm by 600 mm, which is staked into the ground	
	protected from the weather and visible from the street or	
	b) posted on the exterior of the principal construction site shelter	
	3) A copy of the Construction Safety Program shall be posted on the construction site at all times during	
	construction.	
	8.1.4. Construction Safety Officer	
	8.1.4.1. Requirement for Construction Safety Officer	
	1) Where construction of a building includes the services of a Coordinating Registered Professional, a full-	
	time Construction Safety Officer shall be present on the construction site at all times during construction	
	8.1.4.2. Requirement for Site Reviews	
	1) During construction, the Construction Safety Officer shall carry out site reviews at least twice daily to	
	ensure that work is proceeding safely and in conformance with the Construction Safety Program.	
	2) After each site review, the Construction Safety Officer shall post a copy of the site review in a location	
	adjacent to the posted copy of the Construction Safety Program.	
	8.1.4.3. Site Safety Meetings Required	
	1) The Construction Safety Officer shall hold regular construction site safety meetings at least monthly with	
	the constructor and a representative of each trade.	
	8.1.4.4. Safety Meeting Minutes	
	1) The Construction Safety Officer shall keep minutes of the construction site safety meetings held in	
	accordance with Article 8.1.4.3, and copies of those minutes shall be provided to the coordinating	
	registered professional and shall be available at the construction site for inspection by the Chief Building	
	Official.	

<b>Framework Categories</b>	2010 NBCC	2014 Vancouver Building By-Law	2006 ABC
		8.1.4.5. Violation of Construction Safety Program	
		1) If the Construction Safety Officer observes that a procedure set out in the Construction Safety Program	
		is not being followed, the Construction Safety Officer shall immediately inform the appropriate trades	
		safety coordinator or, if that person is unavailable at the site, the supervisor of the appropriate sub-	
		contractor.	
		2) If corrective measures are not taken immediately by the person informed in accordance with Sentence	
		(1), the Construction Safety Officer shall promptly inform the constructor or an agent of the constructor.	
		8.2.6.3. Fire Safety Plan	
		1)Before the commencement of construction, a fire safety plan for the construction site shall be submitted	
		to and accepted by the Chief Building Official.	
		2) Unless otherwise required by Sentence (3), a fire safety plan shall conform with the requirements of the	
		Fire By-law and shall include	
		a) measures to reduce fire hazards in and around the building	
		(see Appendix A), and	
		b) a maintenance program for firefighting measures required by the Fire By-law.	
		3) Where construction occurs in an existing building that is required to have a fire safety plan conforming	
		to the Fire By-law, the existing fire safety plan shall be modified to incorporate the alterations to the	
		existing building.	
Site Inspection			
Training			
Additional Comments			

## Table 2: Fire Regulations Comparison

Framework Categories	2010 NFCC	2012 BCFC	(Standata Refere
Prevent Fire Ignition			
Control Heat-Energy Source(s)			
Smoking	5.6.1.15. Smoking Restrictions 1) Smoking shall be permitted only under the conditions stated in Subsection 2.4.2.	Same as 2010 NFCC	Similar to 2010 NFCC wording with some minor of Same as 2005 NFCC 5.6.1.16. Smoking Restrictions
Limit Unauthorized Access			1) Smoking shall be permitted only if Subsection
Other	<ul> <li>5.6.1.8. Ignition Sources (See Appendix A.)</li> <li>1) Devices capable of producing ignition, internal combustion engines, temporary heating equipment and associated devices shall be kept at a safe distance from combustible material sc as not to cause ignition.</li> <li>2) The clearance between combustible materials and temporary heating equipment, including flues, shall be in conformance with Part 6 of Division B of the NBC or in conformance with the minimum clearances shown on certified heating equipment.</li> <li>A-5.6.1.8. Minimum clearances shown on certified heating equipment or as described in Part 6 of Division B of the NBC or as described in Part 6 of Division B of the NBC or as described in Part 6 of Division B of the NBC or as described in Part 6 of Division B of the NBC should be provided between combustible materials and temporary heating equipment, including flues such as exhaust discharges from internal combustion engines.</li> </ul>	Same as 2010 NFCC, but with references to 2012 BCBC	Do not exist in the same format in the 2010 NFCC Same as 2005 NFCC: 5.6.1.7. Cutting and Welding Operations 1 ) Cutting and welding operations shall conform
Control Source-Fuel			
Hot Work	<ul> <li>5.6.1.7. Hot Surface Applications</li> <li>1) Roofing operations and other surface applications that involve heat sources and hot processes shall be considered hot works and shall conform to the requirements in Sentences</li> <li>(2) and (3) and Section 5.2.</li> <li>2) Bitumen kettles shall</li> <li>a) not be located on roofs,</li> <li>b) be provided with adequate metal covers that are close-fitting and constructed of steel having a thickness of not less than No. 14 sheet metal gauge thickness,</li> <li>c) be under constant supervision when in operation, and</li> <li>d) be maintained free of excessive residue.</li> </ul>	Same as 2010 NFCC	Required to comply with Subsection 5.2 of 2006 Requirements include maintenance of equipmen protection of combustible construction, fire extir 5.6.1.17. 2) Bitumen heating equipment at a construction 3) Bitumen heating equipment at a construction
Electrical	<ul> <li>5.6.2.1. Services Shut-off</li> <li>1) Except as provided in Article 5.6.2.2., before excavation begins, building services shall be shut off, terminated and labelled so as to be easily identifiable outside the limits of the excavation. (See also Sentence 5.6.1.9.(1).)</li> <li>2) The service company whose service connections will be affected shall be notified before any action mentioned in Sentence (1) is taken and, if it is necessary to maintain any service, it shall be</li> <li>a) relocated as necessary, and</li> <li>b) protected from damage.</li> </ul>	Same as 2010 NFCC	Similar to 2010 NFCC with a few wording differer Same as 2005 NFCC: 5.6.2.1. Building Services Shut-off 1 ) Except as provided in Article 5.6.2.2., before e other services shall be shut off, capped and label of the excavation. 2) The service company whose service connectio in Sentence (1) is taken and, if it is necessary to n a) relocated as necessary, and b) protected from damage so as to keep the pub

## 2006 AFC ences are listed at end of Table 2)

lifferences.

2.4.2. is complied with.

to Section 5.2.

AFC, "Hot Works"

t, inspection, compressed gas equipment, location of operations, nguishing equipment, fire safety plan and fire watch.

site shall be provided with metal covers. site shall be under constant supervision when in operation

ices

xcavation begins, all existing gas, electrical, water, steam and led so as to permit them to be easily identified outside the limits

ns will be affected shall be notified before any action mentioned naintain any service, it shall be

ic safe.

Framework Categories	2010 NFCC	2012 BCFC	(Standata Refere
	<ul> <li>5.6.2.2. Maintaining Existing Services</li> <li>1) Existing gas, electrical, water, steam and other services are permitted to be left within the area of the excavation provided that <ul> <li>a) before work begins, the service company concerned has approved the proposed method of operation,</li> <li>b) the location of the services is determined before excavation commences,</li> <li>c) a suitable method of excavation is adopted that will ensure that the services are not damaged, and</li> <li>d) the services are provided with suitable temporary supports.</li> </ul> </li> </ul>	Same as 2010 NFCC	Same as 2010 NFCC
Heater			
Other			<ul> <li>5.6.1.11. Clearance to Combustible Materials</li> <li>1) Internal combustion engines shall be located s combustible materials.</li> <li>2) Where exhaust from internal combustion engines shall be maintained between the exhaust pipe and</li> <li>3) The clearance between combustible materials conformance with Part 6 of Division B of the Albert clearances shown on certified heating equipment</li> </ul>
Control Fuel			
Flammable and combustible liquids	5.6.1.10. Fuel Supply Installation 1) Fuel supplies for heating equipment and internal combustion engines shall conform to a) CSA B139, "Installation Code for Oil-Burning Equipment," or b) CAN/CSA-B149.1. "Natural Gas and Propage Installation Code."	Same as 2010 NFCC	Similar to 2010 NFCC, but no reference to CAN/C
	5.6.1.18. Storage and Use of Dangerous Goods 1) Combustible liquids and flammable liquids shall be stored and used in conformance with Part 4.	Same as 2010 NFCC	Same as 2010 NFC with minor title differences
Compressed gas			
Housekeeping/waste	5.6.1.7. Hot Surface Applications 2) Bitumen kettles shall d) be maintained free of excessive residue.	Same as 2010 NFCC	5.6.1.17. 2) Bitumen heating equipment at a construction s
	5.6.1.19. Temporary Enclosures 1) Fabrics and films used to temporarily enclose buildings shall be securely fastened to prevent them from being blown against heaters or other ignition sources.	Same as 2010 NFCC	Same as 2010 NFCC
	5.6.1.20. Disposal of Combustible Refuse 1) Combustible refuse in sufficient quantities to constitute a fire hazard shall be moved to a safe location. (See also Subsection 8.2.5. of Division B of the NBC.)	Same as 2010 NFC, but with references to 2012 BCBC	Same as 2010 NFCC, but with references to 2006
Storage of Combustibles	<ul> <li>5.6.1.7. Hot Surface Applications</li> <li>3) Mops that have been used for spreading bitumen shall be kept outside the building in a safe location when not in use.</li> <li>5.6.1.18. Storage and Use of Dangerous Goods</li> <li>1) Combustible liquids and flammable liquids shall be stored and used in conformance with Part 4.</li> <li>2) Dangerous goods shall be stored in conformance with Part 3.</li> <li>3) Dangerous goods shall be used in conformance with Part 5.</li> </ul>	Same as 2010 NFCC	<ul> <li>5.6.1.17.</li> <li>4) Mops that have been used for spreading bitum in use.</li> <li>A-5.6.1.2.(2)(c) The control of fire hazards in and includes fire protection for combustible construct piles of materials and refuse and the location of s be taken into consideration in determining which protection measures for demolition operations w specific conditions existing on the site and the fire intent of this Code that requirements regarding the protection in the second applied at construction and demolition operations.</li> </ul>
Manage Fire Impact			

o that their exhaust discharges not less than 500 mm from

nes is piped to the outdoors, a clearance of not less than 150 mm any combustible material.

and temporary heating equipment, including flues, shall be in erta Building Code 2006 or in conformance with the minimum

SA-B149.1, "Natural Gas and Propane Installation Code."

site shall be provided with metal covers.

ABC

nen shall be kept outside the building in a safe location when not

around buildings being constructed, renovated or demolished tion materials and combustible refuse on the site. The sizes of such piles in relation to adjacent buildings are factors that should a fire protection measures to implement. The selection of fire vill also depend on the demolition procedure being used, the efighting capabilities of the responding fire department. It is the he outdoor storage of materials stated in Section 3.3. be referred es.

Framework Categories	2010 NFCC	2012 BCFC	(Standata Referen
Manage Fire			
Control Combustion			
Process			
Fire Extinguishers	<ul> <li>5.6.1.5. Portable Extinguishers</li> <li>1) In addition to the other requirements of this Code, portable extinguishers shall be provided in unobstructed and easily accessible locations in areas <ul> <li>a) where hot work operations are carried out,</li> <li>b) where combustibles are stored,</li> <li>c) near or on any internal combustion engines,</li> <li>d) where flammable liquids and combustible liquids or gases are stored or handled, and</li> <li>e) where temporary fuel-fired equipment is used. 2) The extinguishers required by Sentence (1) shall have a minimum rating of</li> <li>a) 2-A:10-B:C on moveable equipment, and</li> <li>b) 4-A:40-B:C in all other locations.</li> </ul> </li> </ul>	Same as 2010 NFCC	Similar wording to 2010 NFCC Same as 2005 NFCC 5.6.1.5. Portable Extinguishers 1) In addition to the other requirements of this Co a) adjacent to cutting or welding operations, b) in areas where combustibles are stored, c) near or on any internal combustion engines, d) adjacent to areas where flammable liquids or ga e) adjacent to temporary oil-fired or gas-fired equi f) adjacent to bitumen heating equipment. 2) The extinguishers required by Sentence (1) shall a) 2-A:10-B:C on moveable equipment, and b) 4-A:40-B:C in all other locations.
Suppress Fire			
Fire Department			
Access	<ul> <li>5.6.1.4. Access for Firefighting</li> <li>1) Unobstructed access to fire hydrants, portable extinguishers and to fire department connections for standpipe and sprinkler systems shall be maintained.</li> <li>2) A means shall be provided to allow firefighters to perform their duties on all levels of the building.</li> <li>3) Provision shall be made for the use of existing elevators, hoists or lifts to assist firefighting personnel in reaching all levels of the building.</li> <li>4) Access routes for fire department vehicles shall be provided and maintained to construction and demolition sites.</li> <li>5) Where a construction or demolition site is fenced so as to prevent general entry, provision shall be made for access by fire department equipment and personnel.</li> </ul>	Same as 2010 NFCC	Similar wording to 2010 NFCC Same as 2005 NFCC 5.6.1.4. Access for Firefighting 1) Unobstructed access to fire hydrants, portable e and sprinkler systems shall be maintained. 2) Where practicable, access routes for fire depart sites. (See Appendix A.) 3) Where a construction or demolition site is fence access by fire department equipment and personn A-5.6.1.4.(2) Firefighting in storeys above the first personnel. Provision shall be made for the use of e upper storeys of the building. Standata FCI-09-01 <b>[Table Reference A.1]</b> : Water Supplies and Access for Fire Fighting ISSUE: Fire safety provisions for owners, workers a established in Section 5.6 Construction and Demol the adoption of these requirements in the AFC the these measures. Article 5.6.1.4. Access for Fire Fighting sets out spet that fire fighting crews, equipment and apparatus effectively control a fire situation. These provision buildings on the site and to the portable and fixed During the public review of recommendations for concerns regarding fire department access and wa INTERPRETATION: The AFC applies to all construct developments. The owner, developer or contractor responsible for measures which:

ode, portable extinguishers shall be provided

ases are stored or handled, ipment, and

I have a minimum rating of

extinguishers and to fire department connections for standpipe

ment vehicles shall be provided to construction and demolition

ed so as to prevent general entry, provision shall be made for nel.

storey requires prompt vertical movement by fire department elevators, hoists or lifts to assist such personnel in reaching the

and firefighters at construction and demolition sites are lition Sites of Division B of the Alberta Fire Code (AFC). Prior to ere has been an inconsistent understanding and application of

ecific conditions to give the fire department the ability to ensure can reach a construction or demolition site in order to as also ensure that firefighters have access to all levels of the fire protection equipment serving the site.

High Intensity Residential Fires (HIRF) it was determined that ater supplies for fire fighting be further clarified.

ion and demolition sites including single family residential

or a construction or demolition site is required to incorporate

Framework Categories	2010 NFCC	2012 BCFC	(Standata Refere
			a) provide the fire department with unobstructed that accommodates fire fighting personnel, appare b) ensure that unobstructed access is always prov- acceptable to the authority having jurisdiction) set department connections for standpipe and sprink c) verifying, in cooperation with the municipality required by the Alberta Building Code (ABC), the A conditions and/or subdivision approval, are opera Given the potential complexity that may be involve based on: - weather, - location, - road surfaces, - geography, - security provisions, - shared access to infrastructure, - impacts of other related activities, - material storage, - parking of vehicles and equipment - multiple employees and/or employers, - multiple owners of multiple sites, and - other issues that may arise during const It is critical that regular communication take place building and fire authorities to ensure that appro equipment are maintained and continue to opera and, where applicable, on into the occupancy pha-
Standpipes	<ul> <li>5.6.1.6. Standpipe Systems (See Appendix A.)</li> <li>1) Where a standpipe system is to be installed in a building under construction or alteration, the system shall be installed progressively in conformance with Subsection 3.2.5. of Division B of the NBC in areas permitted to be occupied.</li> <li>2) Where a standpipe system is to be installed in portions of a building under construction or alteration that are not occupied, the following shall apply: <ul> <li>a) a permanent or temporary standpipe system is permitted in accordance with Clauses (b) and (c),</li> <li>b) the standpipe system shall be provided with conspicuously marked and readily accessible fire department connections on the outside of the building at street level and shall have at least one hose outlet at each floor,</li> <li>c) the pipe size, hose valves and water supply shall conform to Subsection 3.2.5. of Division B othe NBC,</li> <li>d) the standpipe system shall, as a minimum, be securely supported and restrained on alternate floors,</li> <li>e) at least one hose valve for attaching fire department hose shall be provided at each intermediate landing or floor level in the exit stairway,</li> <li>f) valves shall be kept closed at all times and guarded against mechanical damage,</li> <li>g) the standpipe shall be not more than one floor below the highest forms, staging, and similar combustibles elements at all times, and</li> <li>h) temporary standpipe systems shall remain in service until the permanent standpipe installation is complete.</li> </ul> </li> </ul>	Same as 2010 NFCC, but with references to 2012 BCBC	Same as 2005 NFC, but with reference to 2006 NF Significant differences from 2010 NFCC 5.6.1.6. Standpipe Systems 1 ) Where a standpipe system is to be installed in progressively in conformance with Subsection 3.2

d access to roads, routes, stairways and lifts (where applicable) ratus and equipment,

vided to fire hydrants (or other water supplies and connections erving the site as well as to the portable extinguishers and fire kler systems on the site, and

and the fire department, that water supply systems, where AFC, municipal infrastructure standards, development permit ational and sufficient for firefighting operations.

ved in undertaking these measures on any particular site or sites

ruction or demolition.

e between the owner(s), developer(s), municipality and the priate action has been taken and that these measures and ate to an acceptable level throughout the duration of construction ase. All of the matters noted above are required to be taken under the required Fire Safety Plan as per Article 5.6.1.3. of the AFC. BCC

a building under construction, the system shall be installed 2.5. of Division B of the Alberta Building Code 2006.

Framework Categories	2010 NFCC	2012 BCFC	(Standata Refere
	A-5.6.1.6. Not all aspects of Subsection 3.2.5. of Division B of the NBC are applicable to unoccupied areas of buildings, parts of buildings, facilities and associated areas undergoing construction, alteration or demolition operations. When the temperature causes freezing conditions, the standpipe should be drained to prevent damage to the equipment. It is not expected that hoses and nozzles be made available in the building undergoing construction, alteration or demolitions, as they will be brought to the relevant floor by the responding fire department.		
Hydrants	5.6.1.4. Access for Firefighting 1) Unobstructed access to fire hydrants, portable extinguishers and to fire department connections for standpipe and sprinkler systems shall be maintained.	Same as 2010 NFCC	<ul> <li>Same as 2010 NFCC, plus</li> <li>Standata FCI-09-01 [Table Reference A.1]:</li> <li>Water Supplies and Access for Fire Fighting</li> <li>ISSUE: Fire safety provisions for owners, workers established in Section 5.6 Construction and Demothe adoption of these requirements in the AFC the these measures.</li> <li>Article 5.6.1.4. Access for Fire Fighting sets out sp that fire fighting crews, equipment and apparatus effectively control a fire situation. These provision buildings on the site and to the portable and fixed During the public review of recommendations for concerns regarding fire department access and w INTERPRETATION: The AFC applies to all construct developments.</li> <li>The owner, developer or contractor responsible fi measures which:</li> <li> b) ensure that unobstructed access is always pr acceptable to the authority having jurisdiction) see department conpertions for standnine and sprink</li> </ul>
Sprinklers			
Control Fire by Construction			
Compartment	<ul> <li>5.6.1.12. Fire Separations in Partly Occupied Buildings</li> <li>1) Where part of a building continues to be occupied, the occupied part shall be separated from the part being demolished or constructed by a fire separation having a fire-resistance rating of not less than 1 h.</li> </ul>	Same as 2010 NFCC	Same as 2010 NFCC
	<ul> <li>5.6.1.13. Protection during Shutdown</li> <li>1) Except as permitted in Sentence (2), where a fire protection system is provided, it shall remain operational throughout the construction, alteration or demolition area where reasonably practical.</li> <li>2) When any portion of a fire protection system is temporarily shut down during construction, alteration or demolition operations, protection during shutdown shall comply with Article 6.1.1.4.</li> </ul>	Same as 2010 NFCC	????
Building	<ul> <li>5.6.1.2. Protection of Adjacent Buildings</li> <li>1) Protection shall be provided for adjacent buildings and facilities that would be exposed to fire originating from buildings, parts of buildings, facilities and associated areas undergoing construction, alteration or demolition operations. (See Appendix A.)</li> <li>A-5.6.1.2.(1) Methods and materials used to protect adjacent buildings and facilities can range from active to passive systems such as spatial separation, installing water curtains, using construction methods and materials that include gypsum sheathing, or erecting a temporary fire barrier such as a fire tarpaulin.</li> </ul>	Same as 2010 NFCC	Same as 2010 NFCC Standata FCI-09-02 <b>[Table Reference A.2]</b> : Protection of Adjacent Building ISSUE: Safety provisions at construction and demo Demolition Sites of Division B of the Alberta Fire C Article 5.6.1.2. Protection of Adjacent Building set originating from other buildings, facilities and ass During the public review of recommendations for concerns regarding protection of adjacent buildin

and firefighters at construction and demolition sites are olition Sites of Division B of the Alberta Fire Code (AFC). Prior to sere has been an inconsistent understanding and application of

becific conditions to give the fire department the ability to ensure s can reach a construction or demolition site in order to ns also ensure that firefighters have access to all levels of the d fire protection equipment serving the site.

r High Intensity Residential Fires (HIRF) it was determined that vater supplies for fire fighting be further clarified.

tion and demolition sites including single family residential

or a construction or demolition site is required to incorporate

rovided to fire hydrants (or other water supplies and connections erving the site as well as to the portable extinguishers and fire kler systems on the site, ...

olition sites are established in Section 5.6 Construction and Code (AFC).

ts out requirements to protect buildings and facilities from fire sociated areas undergoing construction, alteration and demolition. r High Intensity Residential Fires (HIRF) it was determined that ngs be further clarified.

Framowerk Categories	2010 NECC	2012 BCEC	2006 AFC
Framework Categories		2012 BCFC	(Standata References are listed at end of Ta
			INTERPRETATION: The AFC applies to all construction and demolition sites inclu
			developments.
			The owner, developer or contractor responsible for a construction or demolitio
			measures, acceptable to a Safety Codes Officer, Fire, and outlined in the require
			5.6.1.3). These protection measures, as outlined in the Fire Safety Plan, should
			that circumstances of ignition are removed from, or mitigated on, the site and
			on a building or facility construction or demolition site will not quickly spread to
			facilities.
			These measures must take into account the size, type and configuration of the
			construction or demolition to be utilized and the distance to, and stage of com
			Solutions may be active, passive or a combination of both to achieve the desire
			"one solution" that will be appropriate for all projects.
			For explanatory purposes this Interpretation focuses on single family residentia
			Most of these suggested solutions are adaptable or scalable and could be used
			AFC Appendix reference A-5.6.1.2. provides a non-exhaustive, non-exclusive lis
			following items:
			- spatial separation,
			- water curtains,
			<ul> <li>fire resistive construction methods, or</li> </ul>
			<ul> <li>temporary fire barriers such as a fire tarpaulin.</li> </ul>
			Other methods which could be utilized to provide some of the required p
			- application of an acceptable intumescent or flame-retardant coating in
			directions and the criteria utilized in any performance tests,
			<ul> <li>installation of an acceptable temporary flame/heat resistant membrane</li> </ul>
			the exterior sheeting of exposed walls prior to closure and cladd
			manufacturer's directions and the criteria utilized in any perform
			<ul> <li>temporary fencing and securing of a building site,</li> </ul>
			<ul> <li>on site security personnel tasked with regular fire watch duties,</li> </ul>
			<ul> <li>smoking in designated areas outside the building or facility,</li> </ul>
			- limitations on the amount of combustible and flammable materials on s
			- proper separation and storage of combustible and flammable materials
			- daily clean up and disposal of combustible waste in secured non-combu
			- a fire watch at the beginning of every break period on site in addition to
			the end of each day,
			- temporary electronic intrusion and thermal detection systems, or
			- planned and coordinated non-sequential construction, in new residential
			Other provisions of Section 5.6 deal with Hot Works procedures and permits, th
			appliances and equipment and the use of temporary heating during construction
			It must be noted that the calculations for required limiting distances, spatial se
			as outlined in the Alberta Building Code 2006 deal with the exposed walls as a d
			conclusion of construction. Where two adjacent structures are expected to be a
			the same time it is necessary for the Safety Codes Officer, Fire, in consultation
			owners/contractors, to determine what measures are appropriate during this p
			most vulnerable to fire spread.
			ine methods and steps outlined are only some of the possible suggestions. Some of the possible suggestions of the possible suggestions of the possible suggestions of the possible suggestions.
			specific period(s) of time when on site conditions or activities create increased
			(Dividual provided and discussion between contractors, owners, develop
			(Building and Fire) and Workplace Health Safety Officers would be expected to
			meet the need for protection and determining when the use of each of the ide
			would be the most effective for the owner and acceptable to the fire authority.

on and demolition sites including single family residential

a construction or demolition site is required to incorporate e, and outlined in the required Fire Safety Plan (see Article the Fire Safety Plan, should provide a reasonable expectation r mitigated on, the site and that any fire which does originate site will not quickly spread to exposed adjacent buildings or

pe and configuration of the project, the methods of istance to, and stage of completion of, adjacent exposures. of both to achieve the desired protection. As such there is no cts.

es on single family residential construction in new sub-divisions. scalable and could be used to mitigate other situations. exhaustive, non-exclusive list of suggestions which notes the

#### ılin.

- ovide some of the required protection include:
- flame-retardant coating in accordance with the manufacturer's any performance tests,
- ne/heat resistant membrane that can be temporarily affixed to Ils prior to closure and cladding in accordance with the
- riteria utilized in any performance tests,
- g site,
- ar fire watch duties,
- ilding or facility,
- nd flammable materials on site.
- ole and flammable materials on site,
- vaste in secured non-combustible containers,
- period on site in addition to a comprehensive site inspection at
- detection systems, or
- onstruction, in new residential subdivisions
- s procedures and permits, the refueling and usage of fuel fired ry heating during construction.
- imiting distances, spatial separations and unprotected openings with the exposed walls as a completed assembly at the
- uctures are expected to be at the framing or sheeting stage at Officer, Fire, in consultation with the affected
- are appropriate during this period when the structures are the
- he possible suggestions. Some may only be required for a r activities create increased vulnerability.
- contractors, owners, developers, local Safety Codes Officers ficers would be expected to result in additional solutions that en the use of each of the identified solutions, singly or in sets,

Framework Categories	2010 NFCC	2012 BCFC	(Standata Refere
Manage Exposed			
Limit Amount Exposed			
Limit Unnecessary Access			
(same as entry above, at *)			
Detection – Manual (Fire Watch)	<ul> <li>5.6.1.14. Watch</li> <li>1) A watch, with tours at intervals of not more than 1 h, shall be provided throughout demolition sites when there are occupants in the portion of the building not being demolished.</li> <li>2) Except where a building is provided with a fire alarm system or similar equipment, a watch, with tours at intervals of not more than 1 h, shall be provided when a portion of the building is occupied while construction operations are taking place.</li> <li>3) Facilities shall be provided to enable the watcher referred to in Sentences (1) and (2) to a) ensure a fire warning is sounded to notify occupants, and</li> <li>b) communicate with the fire department.</li> </ul>	Same as 2010 NFCC	Similar to 2010 NFCC with slight difference in Sen 5.6.1.15. Watch 1) A watch, with tours at intervals of not more th are occupants in the portion of the building not b 2) Except where a building is provided with a fire intervals of not more than 1 h, shall be provided v operations are taking place. 3) Facilities shall be provided to enable the watch fire department.
Detection - Automatic			
Safeguard Exposed			
Detection – Manual (Fire Watch)			
, Detection - Automatic			
Alarms	5.6.1.17. Fire Warning 1) A means shall be provided to alert site personnel of a fire and such means shall be capable o being heard throughout the building or facility.	Same as 2010 NFCC f	Same as 2005 NFCC Similar wording to 2010 5.6.1.9. Fire Warning 1 ) A system shall be provided to alert site person 2) The system required by Sentence (1) shall be c
Egress	<ul> <li>5.6.1.16. Provision for Egress</li> <li>1) In areas of a building where construction, alteration or demolition operations are taking place, at least one exit shall be accessible and usable at all times.</li> <li>2) In buildings being demolished, at least one stairway shall be maintained in usable condition at all times.</li> </ul>	Same as 2010 NFCC	Similar to 2010 NFCC without "alteration and den Occupied Buildings 3) Required exits from the occupied area shall be Appendix A.)
Awareness and ability			
Construction process and procedure	5.6.1.1. Application (See Appendix A.) A-5.6.1.1. The degree of application should be determined in advance in conjunction with the authority having jurisdiction. In construction, alteration or demolition operations that do not pose an exposure hazard to other buildings or to occupants, the degree of application of Section 5.6.may be minimal. The degree of application of Section 5.6. to each operation should be determined in advance, as part of the fire safety plan for the operation, taking into consideration such issues as the size of the operation, exposure of adjacent buildings or facilities to hazards, and the site conditions. Operations can range from large multi-storey buildings to small single-storey residences and may include additions or alterations to existing buildings.	Same as 2010 NFCC	5.6.1.1. Application 2) The degree of application of this Section to eac of the fire safety plan prior to the commencemen A-5.6.1.1.(2) In demolition operations in buildings which there is little fire hazard to occupants, as is Section 5.6. may be minimal. The degree of applic authority having jurisdiction. Construction projec storey residences and may include additions or re should apply to each project should be determine project, taking into consideration such issues as t
	<ul> <li>5.6.1.3. Fire Safety Plan</li> <li>1) Except as required in Sentence (2), prior to the commencement of construction, alteration or demolition operations, a fire safety plan shall be prepared for the site and shall include</li> <li>a) the designation and organization of site personnel to carry out fire safety duties, including a fire watch service if applicable,</li> <li>b) the emergency procedures to be followed in the event of a fire, including</li> <li>i) sounding the fire alarm,</li> <li>ii) notifying the fire department,</li> </ul>	Same as 2010 NFCC	Same as 2005 NFCC 5.6.1.2. Fire Safety Plan 1) Prior to the commencement of construction or 2.8. shall be prepared for the site. 2) The fire safety plan shall include a) the designa duties, including a fire watch service if applicable b) the emergency procedures to be followed in th

itence (3)

an 1 h, shall be provided throughout demolition sites when there being demolished.

alarm system or similar equipment, a watch, with tours at when a portion of the building is occupied while construction

ner referred to in Sentences (1) and (2) to communicate with the

nel of a fire. apable of being heard throughout the building. nolition" included in Sentence (1)

maintained or alternate means of egress shall be provided. (See

ch construction or demolition project shall be determined as part at of operations. (See Appendix A.)

s that do not pose an exposure hazard to other buildings, or in s the case with small buildings, the degree of application of cation should be determined in advance in conjunction with the ts can range from large multi-storey buildings to small singleenovations to existing buildings. The degree to which Section 5.6. ed in advance, as part of the fire safety plan for the construction he size of the project and the site conditions.

demolition operations, a fire safety plan conforming to Section

tion and organization of site personnel to carry out fire safety

ne event of a fire, including
Framework Categories	2010 NFCC	2012 BCFC	(Standata Referer
	<ul> <li>iii) instructing site personnel on the procedures to be followed when the alarm sounds, and</li> <li>iv) firefighting procedures,</li> <li>c) measures for controlling fire hazards in and around the building (see Appendix A), and</li> <li>d) a maintenance procedure for firefighting measures required in Section 5.6.</li> <li>2) Where construction, alteration or demolition operations occur in an existing building that is required to have a fire safety plan conforming to Section 2.8., the fire safety plan shall take into</li> </ul>		<ul> <li>i) sounding the fire alarm,</li> <li>ii) notifying the fire department,</li> <li>iii) instructing site personnel on the procedures to</li> <li>iv) firefighting procedures,</li> <li>c) measures for controlling fire hazards in and aro</li> <li>d) a maintenance procedure for firefighting facilit</li> </ul>
	account the changes occurring to the building.		Standata FCI-09-03 <b>[Table Reference A.3]</b> : FIRE SAFETY PLAN – Construction and Demolition ISSUE: Safety provisions at construction and demo and Demolition Sites of the Alberta Fire Code (AFG Article 5.6.1.3. Fire Safety Plan sets out specific ite environment for workers and outline emergency p are occurring. These provisions also ensure that h firefighting measures and systems required elsew During the public review of recommendations for content, format and use of the required construct INTERPRETATION: The AFC applies to all construct developments. Fire Safety Plans for construction of and contractors on site. There can only be one Fir then the plan must be modified appropriately and acceptance. The owner, developer or contractor responsible for Safety Plan acceptable to a SCO-Fire. In addition to covering the subject matter of previs specifically address: a) Assignment of responsibility for fire safety dution b) Emergency procedures to: provide fire warning aid firefighting, c) Control of fire hazards on the site, and d) Procedures to ensure maintenance of firefighti As noted in Sentence 5.6.1.3.(2) these provisions is
	A-5.6.1.3.(1)(c) The control of fire hazards in and around buildings being constructed, renovated or demolished includes fire protection for combustible construction materials and combustible refuse on the site. The sizes of piles of materials and refuse and the location of such piles in relation to adjacent buildings are factors that should be taken into consideration in determining which fire protection measures to implement. The selection of fire protection measures for demolition operations will also depend on the demolition procedure being used, the specific conditions existing on the site and the firefighting capabilities of the responding	Same as 2010 NFCC	buildings when construction, alteration or demoli Occupied Buildings 1) When a building is occupied prior to its comple the occupied portions of the building shall be mai 2) Measures shall be taken to cordon off and cont A-5.6.1.2.(2)(d) When demolition operations are i should be made to keep any sprinkler systems in o
	fire department. It is the intent of this Code that requirements regarding the outdoor storage of materials stated in Section 3.3. be referred to and applied at construction and demolition sites.		for the structure and the surrounding buildings. Standata FCI-09-03 <b>[Table Reference A.4]</b> : Occupancy of Buildings Under Construction DISCUSSION: Sentence 2.2.10.2.(1) of Division C a permit for a building before construction is actual • a multi-unit residential building built in phases; construction, • the office area of an industrial building is compl- in the shop area,

#### 2006 AFC nces are listed at end of Table 2)

b be followed when the alarm sounds, and

bund the building (see Appendix A), and ties (see Appendix A).

Sites

olition sites are established in Division B, Section 5.6 Construction C).

ems for inclusion in a mandatory Fire Safety Plan to provide a safe procedures at sites where construction, alteration and demolition nazard control measures are in place and maintenance of where in Section 5.6 occurs.

r High Intensity Residential Fires (HIRF) it was determined that the tion and demolition fire safety plans should be further clarified. tion and demolition sites including single family residential or demolition sites will apply to all inspectors, workers, suppliers re Safety Plan for each site. Should circumstances change on site

d resubmitted to the Safety Codes Officer, Fire (SCO-Fire) for

or a construction or demolition site is required to develop a Fire

ious Standata FCI-09-01 and FCI-09-02 the Fire Safety Plan must

ies to workers,

g, notify the fire department, evacuate the site and conduct first

ing measures. must be incorporated into required Fire Safety Plans for existing ition occurs.

etion or during extensive alterations to it, fire safety measures in intained or alternate provisions made. trol access to the work areas.

in progress in a building of combustible construction, efforts operation as long as possible in order to ensure added protection

Illows for an authority having jurisdiction to issue an occupancy Ily finished. This can occur in a number of situations: first phase sells out and is used to finance the next phase of

eted before the exterior finish and roofing materials are installed

Framework Categories	2010 NFCC	2012 BCFC	(Standata Beferanc
			(Standata Reference)
			• a wing of a nospital is built while the rest of the ra-
			Safety at construction and demonstron sites shall con
			Alberta Fire Code 2006, which in turn requires the t
			developed in consultation with and will be the resp
			personnel.
			All building services, including those for fire safety,
			electrical, must be considered when determining th
			a building. To assist, a checklist of standard provisio
			be expected to be complete, however, other provis
			1. The fire safety plan required by Section 5.6
			8.1.1.1.(3) of the Alberta Building Code
			is to be adapted to include provisions for
			fire and building authority having jurisd
			2. The structure and enclosing walls of the bu
			3. The walls enclosing the space to be occupie
			4. All guards for balconies are complete.
			5. Stair shafts are complete for the full height adjacent floor areas.
			<ol> <li>The fire elevator in high rise buildings is op occupied.</li> </ol>
			7. All fire separations and closures are comple
			8. Exits and accesses to exit are complete inc
			devices, guards and handrails from the
			occupants will exit the building (or the I
			serves the basement). Means of access
			occupants from falling objects.
			9. All aspects of barrier-free design outlined in
			occupied.
			10. If service rooms are in operation, fire sepa
			are installed.
			11. All service shafts, including closures, are c
			occupied and have a temporary fire sepa
			12. Water supply, drain, waste and vent syste
			including the one to be occupied. Vent s
			pipes must be effectively capped off.
			13. Emergency power supply systems are inst
			requiring emergency power supply and
			Lighting in corridors, exits and stairwells
			occupied.
			14. Standpipe, sprinkler, fire alarm and detec
			and including the one to be occupied an
			operational. Standpipe systems for firefi
			sprinkler, fire alarm and detection syste
			on all occupied floors.
			15. Garbage rooms, chutes and ancillary servi
			16. Firefighting access routes around the buil
			17. Floors, halls, corridors, lobbies and means
			18. Outside stairways and walkways are com
			19. Security items such as panic hardware and
			20 Mechanical systems such as heating yout

#### 2006 AFC ces are listed at end of Table 2)

facility is still in use. Sentence 8.1.1.1.(3) specifies that the fire onform to the requirements in Section 5.6. of Division B of the development of a fire safety plan. This fire safety plan should be ponsibility of the local fire department and/or fire prevention

r, boilers and pressure vessels, elevators, gas, plumbing, and the necessary provisions required to safeguard the occupants of ions is provided below. The list covers normal items that would isions may also be necessary depending on the specific situation. 6.6. of Division B of the Alberta Fire Code 2006 and Sentence e 2006 for buildings and portions of buildings under construction for the occupants and the trades people to the satisfaction of the diction.

building are complete up to and including the roof. bied are complete.

nt of the building, including all doors between the stair shafts and

perational for all storeys up to and including the one to be

e uppermost storey to be occupied down to the level from which lowest level in the basement up to the exit level if the exit s to the building may need to be enclosed to protect the building

in Section 3.8. shall be completed for all areas intended to be

parations around the service rooms are complete and closures

- complete to the floor/ceiling assembly above the storey to be paration at that assembly.
- tems are complete and operational for all storeys up to and systems should be completed. All unused openings in waste

stalled, operational, connected to the equipment and appliances I shall be maintained throughout the duration of construction. Is is complete for all storeys up to and including the one to be

- ction systems are complete and operational for all storeys up to nd exterior connections for fire department use are installed and fighting on all unfinished floors are operational. Standpipe,
- ems shall be maintained throughout the duration of construction
- vices are complete and operational for all storeys to be occupied. ilding are provided and accessible.
- ns of egress are free of construction materials and other hazards. nplete to all exits and entrances.
- Security items such as panic hardware and electromagnetic locks are installed at all exits and entrances.
   Mechanical systems such as heating, ventilating and air conditioning systems serving occupied areas are

Framework Categories	2010 NFCC	2012 BCFC	(Standata Reference
			complete and operational
			21. If smoke control measures are required b
			floors to be occupied, including floors d
			22. Measures are taken to prevent access by
			incomplete.
			23. Finishes in food establishments, dairy pla
			24. Sanitary facilities are in place and functio
			25. Swimming pool circulating systems in the
			Boilers and Pressure Vessels, Electrical, Elevator, Fi
			letter from the authority having jurisdiction stating
			satisfied before permitting the use of the building of
			subcontractors for the project.
			It should also be noted that Sentence 2.2.10.1.(2) o
			authority having jurisdiction does not operate as a
			building. It is the responsibility of the owner to obt
			commercial operations on the premises.
			Notwithstanding any of the preceding, the authorit
			their opinion, satisfy the safety requirements of the
			CODE REFERENCES
			1. Sentence 2.2.10.1.(2) of Division C states:
			2.2.10.1. Occupancy Permit 2) An occupancy per
			Codes Act shall not be construed to be a licence to
			2. Article 2.2.10.2. of Division C states:
			2.2.10.2. Occupancy before Completion
			1) The authority having jurisdiction may issue an oc
			safeguard persons in or about the project, to allow
			2) The owner shall ensure that no unsafe condition
			undertaken or not completed should occupancy oc
			3. Sentence 8.1.1.1.(3) states:
			8.1.1.1. Scope 3) Fire safety at construction and
			Alberta Fire Code 2006.
Site Inspection			
Training			
Additional Comments			

Table 2 Notes:

References used in Table are:

A.1 Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-09-01, July 2009, Water Supplies and Access for Fire Fighting.

A.2 Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-09-02, July 2009, Protection of Adjacent Building.

A.3 Alberta Municipal Affairs, FIRE CODE INTERPRETATION, Standata FCI-09-03, November 2009, FIRE SAFETY PLAN – Construction and Demolition Sites.

A.4 Alberta Municipal Affairs, Fire Code Interpretation, Standata 06-BCB-002-R1, July 2008, Occupancy of Buildings under Construction.

AN.1 Alberta Municipal Affairs - Safety Services Branch, Notice, Intumescent Coatings on Exterior Sheathing, ISBN #978-0-7785-7129-2, February 2012.

#### 2006 AFC aces are listed at end of Table 2)

by Code, the measures are complete and operational for all designated as areas of refuge.

y unauthorized persons to parts of the building and site that are

ants and abattoirs are complete.

e area to be occupied are complete and operational.

ire, Gas, Plumbing and other authorities may expect to see a g that the preceding safeguards are adequate and have been or the building services by other than the constructor or

of Division C states that the occupancy permit issued by the license to carry on any intended business function within the tain all necessary permits and licenses prior to commencing any

ity having jurisdiction may accept alternate arrangements that, in ne Alberta Building Code.

rmit or permission to use a building issued under the Safety operate or engage in any business.

occupancy permit, subject to compliance with provisions to v occupancy of a building before completion of the project. n exists or will exist because of construction or work being ccur before the completion of the construction or work.

demolition sites shall conform to Section 5.6. of Division B of the



# Summary Tables for Occupational Health and Safety Regulations

Fire Safety Tree Concepts	British Columbia OH&S Regulations	Alberta OH&S Regulations	
Prevent Fire Ignition			
Control Heat-Energy Source(s)			
Smoking			
Limit Unauthorized Access			
Other		<ul> <li>Section 165 Protective procedures and precautions in hazardous locations</li> <li>(3) An employer must ensure that</li> <li>(a) equipment used in a hazardous location will not ignite the flammable substance, and</li> <li>(b) static electricity is effectively controlled.</li> </ul>	Control of igniti 367 An employe (a) suitable pro- ignition of flam (b) all sources of where an explo (c) static charge explosive subst electrically bon
Control Source-Fuel Interactions			
Hot Work	12.112 Standards	Section 169 Hot work	Hot work
	<ul> <li>Welding, cutting and similar processes must be carried out according to the requirements of CSA Standard W117.2-94, Safety in Welding, Cutting, and Allied Processes.</li> <li>12.116 Flammable and explosive substances</li> <li>(2) Burning, welding or other hot work must not be done on any vessel, tank, pipe or structure, or in any place where the presence of a flammable or explosive substance is likely until</li> <li>(a) tests have been made by a qualified person to ensure the work may be safely performed, and</li> <li>(b) suitable safe work procedures have been adopted, including additional tests made at intervals that will ensure the continuing safety of the workers.</li> </ul>	<ul> <li>(1) Despite any other section in this Part, an employer must ensure that hot work is done in accordance with subsections (2) and (3) if</li> <li>(a) the work area is a hazardous location, or</li> <li>(b) the work area is not normally a hazardous location but an explosive atmosphere may exist for a limited time because</li> <li>(i) a flammable substance is or may be in the atmosphere of the work area,</li> <li>(ii) a flammable substance is or may be stored, handled, processed or used in the location,</li> <li>(iii) hot work is on or in an installation or item of equipment that contains a flammable substance or its residue, or</li> <li>(iv) the hot work is on a vessel that contains residue that may release a flammable gas or vapour when exposed to heat.</li> <li>(2) An employer must ensure that hot work is not begun until</li> <li>(a) a hot work permit is issued that indicates</li> <li>(i) the type and frequency of atmospheric testing required,</li> <li>(ii) the protective equipment required,</li> <li>(b) the hot work location is</li> <li>(i) cleared of combustible materials, or</li> <li>(ii) is suitably isolated from combustible materials,</li> <li>(c) procedures are implemented to ensure continuous safe performance of the hot work, and</li> <li>(d) testing shows that the atmosphere does not contain</li> <li>(i) a flammable substance, in a mixture with air, in an amount exceeding 20 percent of that substance's lower explosive limit for gas or vapours, or</li> </ul>	370(1) Where a contractor shall (a) suitable test (i) indicate whe quantity sufficie (ii) confirm that (b) the work pro- implemented to (2) While hot w conduct tests do being performe (3) An employed performed in the suitable steps h (4) An employed contains or has method to remo- before any hot (5) An employed cutting of meta- until the metal

#### **Table 3:** Occupational health and safety regulations for British Columbia, Alberta and Saskatchewan.

#### Saskatchewan OH&S

- tion sources, static charges
- ver or contractor shall ensure that:
- ocedures are developed and implemented to prevent the
- nmable liquids or explosive dusts that are present at a worksite; or potential sources of ignition are eliminated or controlled
- osive atmosphere exists or is likely to exist; and
- e accumulations during transfer of flammable liquids or tances from one container to another are prevented by nding the containers.
- a flammable substance is or may be present, an employer or Il ensure that no hot work is performed until:
- ts have been conducted that:
- ether the atmosphere contains a flammable substance in a ent to create an explosive atmosphere; and
- t the work may be safely performed; and
- ocedures developed pursuant to clause 363(1)(b) have been o ensure continuous safe performance of the work.
- vork is being performed, an employer or contractor shall lescribed in clause (1)(a) at intervals appropriate to the work ed and record the results.
- er or contractor shall not require or permit any hot work to be he vicinity of a material that may constitute a fire hazard until nave been taken to reduce the risk of fire.
- er or contractor shall ensure that a container or piping that contained a flammable substance is purged using an effective nove the flammable substance from the container or piping work is begun on that container or piping.
- er or contractor shall not require or permit any welding or al that has been cleaned with a flammable or combustible liquid has thoroughly dried.

Fire Safety Tree Concepts	British Columbia OH&S Regulations	Alberta OH&S Regulations	
		(ii) the minimum ignitable concentration for dust.	
		(3) An employer must ensure that the tests referred to in subsection (2)(d) are repeated at regular intervals appropriate to the hazard associated with the work being performed.	
		Section 171.1 Welding – general	
		(1) An employer must comply with the requirements of CSA Standard W117.2-06, Safety in welding, cutting and allied processes.	
		(2) An employer must ensure that welding or allied process equipment is erected, installed, assembled, started, operated, used, handled, stored, stopped, inspected, serviced, tested, cleaned, adjusted, carried, maintained, repaired and dismantled in accordance with the manufacturer's specifications.	
		(3) An employer must ensure that, before a welding or allied process is commenced, the area surrounding the operation is inspected and	
		(a) all combustible, flammable or explosive material, dust, gas or vapour is removed, or	
		(b) alternate methods of rendering the area safe are implemented.	
Electrical			
Heater			
Other			
Control Fuel			
liquids			Acceptacies 1 364(1) An em contaminate (a) are non-c (b) are labelle (c) are locate (2) Where th placed is com flanged botto (3) A worker garbage that required by t Receptacles 1 365 An empli flammable lin National Fire published fro combustible
			Hazardous a 366(1) An en (a) no gasolir

for materials contaminated by flammable liquids

- nployer, contractor or owner shall ensure that materials ed by flammable liquids are placed in receptacles that:
- ombustible and have close-fitting metal covers;
- ed "flammable"; and
- ed at least one metre away from other flammable liquids.
- e surface on which a receptacle required by subsection (1) is nbustible, an employer shall ensure that the receptacle has a om or legs that are not less than 50 millimetres high.
- shall place materials contaminated by flammable liquids and may constitute a fire hazard into the appropriate receptacle this section or by section 362.
- for combustible or flammable liquids
- oyer, contractor or owner shall ensure that combustible and quids are kept in receptacles that meet the requirements of the code of Canada 1990, including any Revisions and Errata om time to time, respecting the storage of flammable and liquids.
- ctivities involving combustible or flammable liquids nployer or contractor shall ensure that: ne is used to start a fire or used as a cleaning agent; and

Fire Safety Tree Concepts	British Columbia OH&S Regulations	Alberta OH&S Regulations	
			(b) no worker i
			(i) to replenish
			liquid while the
			exit from a bui
			(2) A worker sh
			(a) use gasoline
			(b) replenish a liquid while the
Compressed gas			
Housekeeping/waste			Garbage as fire
			362 Where gar
			employment, a
			receptacies for
Storage of Compustibles			Procedures for
			stored, produc
			contractor or c
			and safety of w
			(a) handle, use
			spontaneously
			Or
			(b) perform no
Manage Fire Impact			
Manage Fire			
Control Combustion Process			
Fire Extinguishers	12.126 Fire extinguishers		Fire extinguish
	(1) At least one fire extinguisher of a suitable type and capacity must be		361(1) An emp
	(2) Fire extinguisher locations must be marked and made known to		the health and
	(2) File extinguisher locations must be marked and made known to workers.		(2) An employe
			extinguishers a
			(a) each indust
			kettle that is in
			(b) each weldir
Suppress Fire			
Fire Department			
Access			
Standpipes			
Hydrants			
Sprinklers			
Control Fire by Construction			
Compartment			

#### Saskatchewan OH&S

is required or permitted:

a tank on a heating device with a combustible or flammable e device is in operation or is hot enough to ignite the liquid; or ar pot, while in use, within three metres of an entrance to or ilding.

hall not:

e to start a fire or use gasoline as a cleaning agent; or tank on a heating device with a flammable or combustible e device is in operation or is hot enough to ignite the liquid.

#### hazard

rbage that may constitute a fire hazard is present at a place of an employer, contractor or owner shall provide covered r the garbage that are suitable to the nature of the hazard.

flammable substances

a flammable substance is or is intended to be handled, used, ced or disposed of at a place of employment, an employer, owner shall develop written procedures to ensure the health workers who:

, store, produce or dispose of a flammable substance that may ignite or ignite when in combination with any other substance;

ot work where there is a risk of fire.

ners

ployer, contractor or owner shall ensure that portable fire are selected, located, inspected, maintained and tested so that d safety of workers at the place of employment is protected.

er, contractor or owner shall ensure that portable fire

are placed not more than nine metres away from:

trial open-flame portable heating device, tar pot or asphalt n use; and

ng or cutting operation that is in progress.

Fire Safety Tree Concepts	British Columbia OH&S Regulations	Alberta OH&S Regulations	
Building			
System & Operational Readiness			
Water Supply			
Manage Exposed			
Limit Amount Exposed			
Limit Unauthorized Access* (same as entry below, at ‡)			
Detection – Manual (Fire Watch)			
Detection - Automatic			
Safeguard Exposed			
Detection – Manual (Fire Watch)			
Detection - Automatic			
Alarms			
Egress	<ul> <li>4.69 Emergency lighting <ol> <li>If failure of a lighting system would create conditions dangerous to the health and safety of workers, an emergency lighting system must be provided for the workplace and the exit routes.</li> <li>An emergency lighting system must provide dependable illumination while the primary lighting system is off to enable all emergency measures to be carried out, including <ol> <li>emergency shutdown procedures, and</li> <li>evacuation of workers from the premises.</li> <li>An emergency lighting system in a fixed facility must meet the requirements of section 3.2.7 (Lighting and Emergency Power Systems) of the BC Building Code with regard to</li> <li>illumination level,</li> <li>use of recessed fixtures,</li> <li>duration of emergency lighting,</li> <li>the use of self-contained emergency lighting units, and</li> <li>emergency lighting system must be inspected, tested and maintained to meet the requirements of section 6.8 (Emergency Power Systems and Unit Equipment for Emergency Lighting) of the BC Fire Code.</li> </ol> </li> <li>5.100 Procedures for evacuation</li> <li>Written evacuation procedures appropriate to the risk must be developed and implemented to</li> <li>on otify workers, including the first aid attendant, of the nature and location of the emergency,</li> <li>evacuate workers safely,</li> </ol></li></ul>	<ul> <li>Section 119 Safe entry and exit</li> <li>(1) An employer must ensure that every worker can enter a work area safely and leave a work area safely at all times.</li> <li>(2) An employer must ensure that a work area's entrances and exits are in good working order.</li> <li>(3) An employer must ensure that a work area's entrances and exits are free from materials, equipment, accumulations of waste or other obstructions that might endanger workers or restrict their movement.</li> <li>(4) An employer must ensure that, if a worker could be isolated from a primary escape route,</li> <li>(a) there is a ready, convenient and safe secondary means of escape from the work area, and</li> <li>(b) the secondary escape route is readily useable at all times.</li> <li>(5) An employer must ensure that all workers are familiar with escape routes from the work area.</li> <li>Section 121 Walkways, runways and ramps</li> <li>(1) An employer must ensure that a walkway, runway or ramp</li> <li>(b) is at least 600 millimetres wide,</li> <li>Section 122 Stairways</li> <li>(1) An employer must ensure that</li> <li>(a) the vidth of the treads and the height of the rise of a stairway are uniform throughout its length, and</li> <li>(b) the treads of a stairway are level.</li> <li>(2) An employer must ensure that</li> <li>(a) a stairway with 5 or more risers has the appropriate handrail required by</li> </ul>	Lighting 69(3) Where fa dangerous to th owner shall pro- the worksite ar Handrails 121(1) An emplor or more treads (a) is equipped (i) extends the (ii) is adequate (iii) is adequate (iii) is installed above the from (iv) is strong en (b) on an open or equivalent s (2) Where a ha (1) applies, an constructed of material of equithan three met General duty re 248 An employ means of entra and work-relat

Saskatchewan OH&S
ailure of the regular lighting system is likely to create conditions the health or safety of workers, an employer, contractor or ovide appropriate emergency lighting of at least five decalux for nd exit routes from the worksite. oloyer, contractor or owner shall ensure that a stairway with five s: I with a handrail that: entire length of the stairway; ely secured to the structure; on the stairway at a height of between 800 and 920 millimetres at edge of the treads; and hough to support a worker who falls on the stairway; and a side, is equipped with both a handrail and an intermediate rail safeguard. andrail is required for a temporary stairway to which subsection employer, contractor or owner shall ensure that the handrail is f at least 38 by 89 millimetre construction grade lumber, or uivalent strength, and is supported by posts that are not more tres apart.
e: entrances, exits yer, contractor or owner shall provide and maintain a safe ance to and exit from a place of employment and all worksites ed areas in or on a place of employment.

Fire Safety Tree Concepts	British Columbia OH&S Regulations	Alberta OH&S Regulations	
	(c) check and confirm the safe evacuation of all workers,	this Code, and	250(1) An emplo
	(d) notify the fire department or other emergency responders, and (e) notify adjacent workplaces or residences which may be affected if the	(b) a stairway with open sides has a handrail and an intermediate rail or equivalent safeguard on each open side.	<ul><li>(a) is strong enc subjected;</li></ul>
	risk of exposure to a substance extends beyond the workplace. (2) Notification of the public must be in conformity with the requirements	(3) An employer must ensure that temporary stairs are at least 600 millimetres wide.	(b) has secure for equipment; and
	of other jurisdictions, including provincial and municipal agencies.	Section 123 Handrails on stairways	(c) is at least:
		(1) This section applies to stairways with 5 or more risers.	(i) 600 millimetr
	14.17 Access and egress	(2) An employer must ensure that a stairway is equipped with a handrail	and
	(1) A crane or hoist must have a safe means of access to and egress from	that	(ii) 900 millimet
	(a) the operator's position, and	(a) extends the entire length of the stairway,	1997.
	(b) all maintenance and inspection locations on the crane and hoist.	(b) is secured and cannot be dislodged,	(2) An employer
	(2) If the normal safe means of egress is not always available to the operator during crane operations, an alternative safe means must be	(c) is between 800 millimetres and 920 millimetres above the front edge of the treads, and	guardrail.
	provided for the operator to get from the operating position to a safe area in the event of a power failure or other emergency.	(d) is substantial and constructed of lumber that is not less than 38 millimetres by 89 millimetres or material with properties the same as or better than those of lumber.	Stairs 251 An employe
	20.5 Temporary floors	(3) An employer must ensure that posts supporting a handrail	(a) the widths o
	(1) During the erection of a building or structure of skeleton construction, a	(a) are spaced not more than 3 metres apart at their vertical centres, and	between treads
	temporary floor, decking or formwork must be installed at the main working level where work is being done.	(b) are constructed of lumber that is not less than 38 millimetres by 89 millimetres or materials with properties the same or better than those of	each tread is lev (b) any stairs ins
	(2) If compliance with subsection (1) is not practicable, a temporary floor or other effective means of protection must be installed not more than two levels or $8 \text{ m}$ (25 ft) below the main working level	lumber.	force, including
	(3) Subsections (1) and (2) do not apply during the initial connection of	Section 186 Lighting	
	structural members where it is not practicable to provide a floor or decking.	(a) leave the work site safely,	
	(4) There must be a safe means of access and egress to each main working level referred to in subsection (1).		
	(5) A stairway comprised of at least framing, treads and a handrail must be provided to each floor level before construction of the next floor or deck surface is undertaken, and the treads on the stairway must not create a tripping or slipping hazard.		
	(1) Except as otherwise provided in this section and section 4.69, an employer must provide and maintain minimum illumination levels to ensure safe working conditions, safe passage and the identification of hazards or obstructions as follows:		
	(b) 54 lux (5 fc) in areas of high activity, such as frequently used walkways and building access and egress points.		
Awareness and ability			
Construction process and	5.97 Emergency plan	Section 115 Emergency response plan	Fire safety plan
procedure	(1) A workplace must have a written emergency plan, appropriate to the hazards of the workplace that addresses the requirements of sections 5.98 to 5.102.	<ul> <li>(1) An employer must establish an emergency response plan for responding to an emergency that may require rescue or evacuation.</li> <li>(2) An employer must involve affected workers in establishing the</li> </ul>	360(1) An emplo (a) take all reaso place of employ
	(2) The plan must address emergency conditions which may arise from within the workplace and from adjacent workplaces	emergency response plan.	any fire that ma
	(3) The plan must be developed, implemented and annually reviewed in consultation with the joint committee or the worker health and safety representative, as applicable.	Section 116 Contents of plan	(2) A plan develo

#### Saskatchewan OH&S

loyer, contractor or owner shall ensure that every travelway: ough to withstand any traffic to which the travelway may be

footing for workers and adequate traction for vehicles or

res wide, in the case of travelways installed before July 1, 1997;

tres wide, in the case of travelways installed on and after July 1,

er, contractor or owner shall ensure that every travelway that a hazard described in subsection 116(2) is provided with a

ver, contractor or owner shall ensure that:

of treads, the depths of treads and the vertical distances are uniform throughout the length of any stairway and that vel; and

stalled on or after the day on which this section comes into temporary stairs, are at least 600 millimetres wide.

loyer, contractor or owner shall:

onably practicable steps to prevent the outbreak of fire at a yment and to provide effective means to protect workers from ay occur; and

implement a written fire safety plan that provides for the rkers in the event of a fire.

loped pursuant to subsection (1) must include:

Fire Safety Tree Concepts	British Columbia OH&S Regulations	Alberta OH&S Regulations	
		An emergency response plan must include the following:	(a) the emerge
		(a) the identification of potential emergencies;	(i) sounding the
		(b) procedures for dealing with the identified emergencies;	(ii) notifying the
		(c) the identification of, location of and operational procedures for emergency equipment;	(iii) evacuating disabilities;
		<ul> <li>(d) the emergency response training requirements;</li> <li>(e) the location and use of emergency facilities;</li> <li>(f) the fire protection requirements;</li> <li>(g) the alarm and emergency communication requirements;</li> <li>(h) the first aid services required;</li> <li>(i) procedures for rescue and evacuation;</li> <li>(j) the designated rescue and evacuation workers.</li> </ul>	<ul> <li>(b) the quantiti present at the p</li> <li>(c) the designated the designated</li> <li>(d) the training fire safety;</li> <li>(e) the holding</li> <li>(f) the control of</li> <li>(3) An employe</li> <li>(a) designated p</li> </ul>
			(b) the fire safe workers; and (c) a fire drill is
Site Inspection			
Training	<ul> <li>4.16 Training <ul> <li>(1) All workers must be given adequate instruction in the fire prevention and emergency evacuation procedures applicable to their workplace.</li> </ul> </li> <li>5.102 Training and drills <ul> <li>The employer must</li> <li>(a) provide training in the appropriate emergency procedures to all workers who may be affected, and</li> <li>(b) conduct drills to test the adequacy of procedures and to ensure that workers and supervisors are familiar with their roles and responsibilities.</li> </ul> </li> </ul>		Training of wor 19(1) An emplo necessary to pr (2) The training (a) procedures
Additional Comments	Specific construction regulations	No specific construction site regulations	No specific con

## Saskatchewan OH&S ncy procedures to be used in case of fire, including: e fire alarm; ne fire department; and endangered workers, with special provisions for workers with ies, locations and storage methods of all flammable substances place of employment; tion of persons to carry out the fire safety plan and the duties of persons; of designated persons and workers in their responsibilities for of fire drills; and of fire hazards. er, contractor or owner shall ensure that: persons and workers who have been assigned fire safety duties trained in, and implement, the fire safety plan; ety plan is posted in a conspicuous place for reference by held at least once during each 12-month period. rkers over shall ensure that a worker is trained in all matters that are rotect the health and safety of the worker when the worker: g required by subsection (1) must include:

to be taken in the event of a fire or other emergency;

struction site regulations

Fire Safety Tree Concepts	Manitoba OH&S Regulations	Ontario OH&S Regulations	
Prevent Fire Ignition			
Control Heat-Energy Source(s)			
Smoking	Regulations 18(1) The Lieutenant Governor in Council may make regulations (c.1) respecting the prohibition of smoking at workplaces, including deeming a contravention of The Non-Smokers Health Protection Act relating to workplaces to be a contravention of this Act for the purpose of issuing an improvement order under section 26;		51. Smoking flammable va O.C. 885-2002
Limit Unauthorized Access‡ (same as entry below, at *)			
Other			
Control Source-Fuel Interactions			
Hot Work	Hot work 19.9(1) An employer must ensure that hot work is performed in accordance with the Manitoba Fire Code. 19.9(2) Before any hot work begins, an employer must ensure that a container or piping that contains or has contained a flammable substance is purged using an effective removal method. 19.9(3) An employer must ensure that welding or cutting of metal that has been cleaned with a flammable or combustible liquid or flammable gases does not take place until the metal has thoroughly dried.	<ul> <li>123. Precautions to prevent a fire shall be taken when using a blow torch or welding or cutting equipment or a similar piece of equipment. O. Reg. 213/91, s. 123.</li> <li>211. (1) Only a competent worker shall operate a hot tar or bitumen roadtanker or kettle. O. Reg. 213/91, s. 211 (1).</li> <li>(2) If a hot tar or bitumen roadtanker or kettle is fitted with a propane-fuelled heater,</li> <li>(a) the storage cylinder for propane shall not be placed closer than three metres to a source of fire or ignition;</li> <li>(b) the lines connecting the storage cylinder for propane to the heating device shall be located so that they do not come into contact with the hot tar or bitumen in the case of a spill or a failure of a component of the system; and</li> <li>(c) a fire extinguisher with an Underwriters' Laboratories of Canada rating of at least 4A40BC shall be provided with the roadtanker or kettle. O. Reg. 213/91, s. 211 (2).</li> <li>(3) A propane burner used on a bitumen roadtanker or kettle,</li> <li>(a) shall have a thermal rating no greater than that recommended by the manufacturer of the roadtanker or kettle; and</li> <li>(b) shall consist of components that are adequate for their intended use. O. Reg. 213/91, s. 211 (3).</li> <li>(4) Hot tar or bitumen shall be transferred from a roadtanker to a kettle through enclosed piping. O. Reg. 213/91, s. 211 (4).</li> </ul>	<ul> <li>313. Prohibit</li> <li>combustible s</li> <li>or combustible</li> <li>precautions a</li> <li>O.C. 885-2001</li> <li>314. Arc weld</li> <li>well as the installation, shall comply welding, cutti</li> <li>O.C. 885-2001</li> <li>315. Resistant</li> <li>installation, h</li> <li>shall comply welding, cutti</li> <li>O.C. 885-2002</li> <li>316. Gas weld</li> <li>brazing or cut</li> <li>equipment re</li> <li>W117.2-M94</li> <li>standard.</li> <li>O.C. 885-2002</li> </ul>
Electrical			
Heater		49. (1) A fuel-fired heating device shall be located, protected and used in such a way that there is no risk of igniting a tarpaulin or similar temporary enclosure or combustible materials adjacent to it. O. Reg. 213/91, s. 49 (1).	

**Table 4:** Occupational health and safety regulations for Manitoba, Ontario and Quebec.

#### **Quebec OH&S Regulations**

prohibition: Smoking in any area where there may be apours or gases is prohibited.

1, s. 51.

tion: Welding and cutting operations are prohibited close to substances or in places containing flammable gases or vapours le dusts presenting a fire or explosion hazard, unless special are taken to prevent any risk of fire or explosion.

1, s. 313.

lding and cutting: Any task involving arc welding or cutting, as installation, handling and maintenance of equipment required for ill comply with Chapter 5 of the CAN/CSA W117.2-M94 Code for ding, cutting and adjacent processes standard.

1, s. 314.

nce welding: Any task involving resistance welding, as well as the nandling and maintenance of equipment required for doing so, with Chapter 6 of the CAN/CSA W117.2-M94 Code for safety in ing and adjacent processes standard.

1, s. 315.

lding, brazing and cutting: Any task involving gas welding, itting, as well as the installation, handling and maintenance of equired for doing so, shall comply with Chapter 8 of the CAN/CSA Code for safety in welding, cutting and adjacent processes

1, s. 316.

Fire Safety Tree Concepts	Manitoba OH&S Regulations	Ontario OH&S Regulations	
Other	Control of ignition sources, static charges 19.7 An employer must ensure that (a) static charge accumulations during the transfer of a flammable liquid or explosive substance from one container to another are prevented by either electrically bonding or grounding the containers; (b) metallic or conductive containers used to transfer flammable liquids are electrically bonded to each other or are electrically grounded while their contents are being transferred from one container to the other; and (c) only flammable fuel transfer equipment and portable fuel transfer tanks approved by the CSA or the Underwriters Laboratories of Canada are used to transfer flammable liquids.		
Control Fuel			
Flammable and combustible liquids	Containers for contaminated materials 19.4 An employer must ensure that any material contaminated by a flammable or combustible liquid is placed in a container that is stored in accordance with the Manitoba Fire Code. Containers for combustible or flammable liquids 19.5 An employer must ensure that any flammable or combustible liquid is kept in a container that meets the requirements of the Manitoba Fire Code. Workplace Safety And Health Regulation Use of gasoline 19.6(1) An employer must ensure that gasoline is not used to start a fire or used as a cleaning agent. 19.6(2) An employer must ensure that a worker does not (a) refill a tank connected to a heating device with a combustible or flammable liquid while the device is in operation or is hot enough to ignite the liquid; or (b) place a tar pot that is in use within 3 m of an entrance to or exit from a building or structure.	<ul> <li>43(2) No more than one work day's normal supply of a flammable liquid shall be stored in a building or structure on a project unless it is stored,</li> <li>(a) in a container that is suitable for the particular hazards of the liquid; and</li> <li>(b) in a controlled access area or a room,</li> <li>(i) that has sufficient window area to provide explosion relief to the outside, and</li> <li>(ii) that is remote from the means of egress from the building or structure.</li> <li>O. Reg. 213/91, s. 43 (2).</li> <li>(3) A portable container used to store or transport flammable liquids,</li> <li>(a) shall be approved for use for that liquid by a recognized testing laboratory; and</li> <li>(b) shall have a label stating the use for which the container is approved and the name of the testing laboratory which gave the approval required by clause (a). O. Reg. 213/91, s. 43 (3).</li> </ul>	
Compressed gas	Compressed gas equipment 19.10 An employer must ensure that all compressed gas cylinders are stored in accordance with the Manitoba Fire Code.	<ul> <li>42(4) No storage cylinder for propane shall be placed closer than three metres to a source of ignition or fire. O. Reg. 213/91, s. 42 (4).</li> <li>(5) Subsection (4) does not apply to a storage cylinder,</li> <li>(a) that forms part of hand-held propane equipment;</li> <li>(b) that forms part of a lead pot used in plumbing or electrical work;</li> <li>(c) that forms part of a propane-powered or propane-heated vehicle; or</li> <li>(d) that is protected from a source of ignition by a barrier, wall or other means of separation. O. Reg. 213/91, s. 42 (5).</li> </ul>	
Housekeeping/waste		<ul> <li>35. (1) Waste material and debris shall be removed to a disposal area and reusable material shall be removed to a storage area as often as is necessary to prevent a hazardous condition arising and, in any event, at least once daily. O. Reg. 213/91, s. 35 (1).</li> <li>41. A combustible, corrosive or toxic substance shall be stored in a suitable container. O. Reg. 213/91, s. 41.</li> </ul>	

Quebec OH&S Regulations	

Fire Safety Tree Concepts	Manitoba OH&S Regulations	Ontario OH&S Regulations	
Storage of Combustibles			81. Storage: R (1) away fro (2) away fro O.C. 885-2001
Manage Fire Impact			
Manage Fire			
Control Combustion Process			
Fire Extinguishers	Fire protection equipment and fire extinguishers 19.3(1) An employer must ensure that (a) fire protection equipment of an appropriate type and sufficient size and capacity to be effective is installed in the workplace in accordance with the Manitoba Fire Code ; and (b) portable fire extinguishers are located in the workplace in accordance with the Manitoba Fire Code. 19.3(2) An employer must ensure that all fire protection equipment and portable fire extinguishers are maintained in accordance with the manufacturer's specifications and the Manitoba Fire Code.	<ul> <li>52. (1) Fire extinguishing equipment shall be provided at readily accessible and adequately marked locations at a project. O. Reg. 213/91, s. 52 (1).</li> <li>52 (2) Without limiting subsection (1), at least one fire extinguisher shall be provided,</li> <li>(a) where flammable liquids or combustible materials are stored, handled or used;</li> <li>(b) where oil-fired or gas-fired equipment, other than permanent furnace equipment in a building, is used;</li> <li>(c) where welding or open-flame operations are carried on; and</li> <li>(d) on each storey of an enclosed building being constructed or altered. O. Reg. 213/91, s. 52 (2).</li> <li>(3) At least one fire extinguisher shall be provided in a workshop for each 300 or fewer square metres of floor area. O. Reg. 213/91, s. 52 (3).</li> <li>53. (1) Fire extinguishing equipment shall be of a suitable type and size to permit the evacuation of workers during a fire. O. Reg. 213/91, s. 53 (1).</li> <li>(2) Every fire extinguisher,</li> <li>(a) shall be a type whose contents are discharged under pressure; and</li> <li>(b) shall have an Underwriters' Laboratories of Canada 4A40BC rating. O. Reg. 213/91, s. 53 (2).</li> <li>54. (1) Fire extinguishing equipment shall be protected from physical damage and from freezing. O. Reg. 213/91, s. 54 (1).</li> <li>(2) After a fire extinguisher is used, it shall be refilled or replaced immediately. O. Reg. 213/91, s. 54 (2).</li> <li>55. Every fire extinguisher shall be inspected for defects or deterioration at least once a month by a competent worker who shall record the date of the inspection on a tag attached to it. O. Reg. 213/91, s. 55.</li> </ul>	<ul> <li>36. Portable fall buildings set all buildings set the choice, in extinguishers standard, app Additional fire localized risk (0.C. 885-2001)</li> <li>37. Operating (1) be approximation (2) provide p</li></ul>
Suppress Fire			
Fire Department		57 (12) The constructor shall give a copy of the floor plan to the fire department located nearest to the project. O. Reg. 145/00, s. 18 (2).	
Access			
Standpipes		<ul> <li>56. No work shall be carried out at a height of 84 metres or more in a building unless the building has temporary or permanent fire pumps that provide a minimum water flow of 1,890 litres per minute at a discharge pressure of at least 450 kilopascals at and above the 84-metre height. O. Reg. 145/00, s. 17.</li> <li>57. (1) As construction proceeds in a building with two or more storeys, a permanent or temporary standpipe shall be installed to within two storeys</li> </ul>	

#### Quebec OH&S Regulations

Flammable and combustible substances shall be stored: om areas with a high fire hazard;

om combustive substances or powerful oxidizing agents. 1, s. 81.

fire extinguishers: portable fire extinguishers shall be installed in so that action may be taken in the early stages of a fire.

nstallation, utilization and maintenance of these portable fire shall comply with the NFPA-10 Portable Fire Extinguishers plicable according to the year the extinguishers were installed. e extinguishers shall be installed in places where there is a of fire.

1, s. 36.

g conditions: Portable fire extinguishers shall:

oved by Underwriters' Laboratories of Canada (ULC);

protection according to the nature of the hazard; after use;

name of the person entrusted therewith and the date of the n.

1, s. 37.

Fire Safety Tree Concepts	Manitoba OH&S Regulations	Ontario OH&S Regulations	
		of the uppermost work level. O. Reg. 145/00, s. 18 (1).	
		(2) Subsection (1) does not apply to work carried out in a building which is not required by the Building Code to have a permanent standpipe. O. Reg. 213/91, s. 57 (2).	
		(3) A permanent standpipe,	
		<ul> <li>(a) shall have sufficient hose outlets to permit every part of the building to be protected by a hose not longer than twenty-three metres;</li> </ul>	
		(b) shall have a connection for the use of the local fire department located on the street side of the building not more than 900 millimetres and not less than 300 millimetres above ground level and to which there is clear access at all times; and	
		(c) shall be maintained so as to be readily operable if required to be used. O. Reg. 213/91, s. 57 (3).	
		(4) Every hose outlet in a permanent standpipe shall have a valve. O. Reg. 213/91, s. 57 (4).	
		(5) Every hose used with a permanent standpipe,	
		(a) shall be at least thirty-eight millimetres in diameter;	
		(b) shall have a combination straight stream and fog nozzle; and	
		(c) shall be stored on a rack in such a way as to protect it from damage and keep it available for immediate use. O. Reg. 213/91, s. 57 (5).	
		(6) If a temporary standpipe has been installed, it shall not be disconnected until the permanent standpipe is connected, so that there is always a standpipe in service. O. Reg. 145/00, s. 18 (2).	
		(7) A temporary standpipe shall be maintained so that it is readily operable. O. Reg. 145/00, s. 18 (2).	
		(8) A temporary standpipe shall have at least one hose outlet per floor, with a valve and a hose attached to each hose outlet and a nozzle attached to each hose. O. Reg. 145/00, s. 18 (2).	
		(9) In addition to the requirements of subsection (8), there shall be a connection to which there is clear access at all times, located between 30 and 90 centimetres above ground level on a side of the building that faces the street. O. Reg. 145/00, s. 18 (2).	
		(10) A hose outlet on a temporary standpipe,	
		(a) shall have a valve; and	
		(b) shall be capable of accepting a hose that is 38 millimetres in diameter. O. Reg. 145/00, s. 18 (2).	
		(11) If a temporary standpipe is installed in a building under construction, the constructor shall post at the project, or have available for review, a floor plan of the building indicating,	
		(a) the location of the hose outlets on each floor;	
		(b) the location of the point on the perimeter of each floor that is furthest from the hose outlet on that floor; and	
		(c) the location of each exit on each floor. O. Reg. 145/00, s. 18 (2).	
Hydrants			
Sprinklers			
Control Fire by Construction			

#### Quebec OH&S Regulations

Fire Safety Tree Concepts	Manitoba OH&S Regulations	Ontario OH&S Regulations	
Compartment			
Building			
System & Operational Readiness			
Water Supply			
Manage Exposed			
Limit Amount Exposed			
Limit Unauthorized Access			
Detection – Manual (Fire			
Watch) Detection - Automatic			
Cofeeward Europeed			
Detection – Manual (Fire			
Watch)			
Detection - Automatic			
Alarms			
	<ul> <li>13.1(1) An employer and an owner must provide and maintain a safe means of access to and egress from <ul> <li>(a) the workplace; and</li> <li>(b) all work-related areas at a workplace.</li> </ul> </li> <li>13.1(2) An employer and an owner must ensure that each means of access and egress <ul> <li>(a) complies with the Manitoba Building Code and Manitoba Fire Code ;</li> <li>(b) is free from all obstructions, including obstructions from materials and equipment and accumulations of waste and ice and snow; and</li> <li>(c) has sufficient traction to allow workers to move safely.</li> </ul> </li> </ul>	<ul> <li>means of egress. O. Reg. 213/91, s. 49 (4).</li> <li>70. (1) Access to and egress from a work area located above or below ground level shall be by stairs, runway, ramp or ladder. O. Reg. 213/91, s. 70 (1).</li> <li>(2) Subsection (1) does not apply to a work area that is a suspended scaffold able to be moved to give access to a floor, roof or platform or to ground level. O. Reg. 213/91, s. 70 (2).</li> <li>71. Adequate means of egress shall be provided from a work area to permit the evacuation of workers during an emergency. O. Reg. 213/91, s. 71.</li> <li>72. A work area, a route to and from a work area and a scaffold platform on which work is being performed shall be maintained at all times in a condition that does not endanger workers and, without limiting the</li> </ul>	shall be draw O.C. 885-2003 15. Walkway (1) be kept i (3) be wide 600 mm wide (4) be at lea O.C. 885-2003 22. Service st
	Temporary doorways: construction project site 13.2 An employer and a prime contractor must ensure that a temporary doorway used for access or egress at a construction project site (a) is designed and constructed to open outward from the workplace; and (b) is not locked in the closed position when a worker is at the site. Secondary means of egress 13.4 An employer must ensure that there is a ready, convenient and safe secondary means of egress from the workplace that is conspicuously marked and readily usable at all times if (a) the primary means of egress from a workplace becomes unusable because of a malfunction of equipment or a work process; or (b) a worker could be isolated from the primary means of egress.	<ul> <li>(a) shall be kept clear of obstructions;</li> <li>(b) shall be kept clear of snow, ice or other slippery material; and</li> <li>(c) shall be treated with sand or similar material when necessary to ensure a firm footing. O. Reg. 213/91, s. 72.</li> <li>75. (1) No work shall be performed in a building or structure that will be at least two storeys high when it is finished unless stairs are installed in accordance with this section. O. Reg. 213/91, s. 75 (1).</li> <li>(2) As the construction of a building or structure progresses, permanent or temporary stairs shall be installed up to,</li> <li>(a) the uppermost work level; or</li> <li>(b) if stairs would interfere with work on the uppermost work level, to within the lesser of two storeys or nine metres below the uppermost work level. O. Reg. 213/91, s. 75 (2).</li> <li>(3) Subsection (2) does not apply with respect to,</li> <li>(a) a part of a building or structure in which only the structural steel beams</li> </ul>	<ul> <li>(1) have a fill</li> <li>after 2 Augus</li> <li>(2) have a sl</li> <li>except for sta</li> <li>up to 60°;</li> <li>(3) be provided</li> <li>(4) be provided</li> <li>(4) be provided</li> <li>(5) a depth</li> <li>(6) a depth</li> <li>(7) a maxim</li> <li>(7) a for which</li> <li>(8) a depth of from the post</li> </ul>

Quebec OH&S Regulations	
on plan: In any establishment, an emergency evacuation plan in up and be in force, if applicable. 1, s. 34.	
rs: Walkways inside a building shall: in good order and free from any obstruction; enough to allow the safe handling of materials and be at least e; ast 1,100 mm wide if they serve as direct access to an exit; 1, s. 15.	
tairs: Any service stairs shall: ninimum width of 550 mm for stairways built or modified on or at 2001;	
lope between at least 20° and at most 50° with the horizontal, airways installed before 1 January 1973 which may have a slope	
ded with guardrails along any free side; ded with steps having: rm depth and width in any one flight; n of at least 150 mm (nose excluded); num height of 240 mm, except for stairs built before 1 January ch the stair height may reach 280 mm; ree space of at least 2 m above each stair, measured from the prward part of the stair. stairs on circular or spiral service stairs shall measure 230 mm t or the supports for the inside railing.	

Fire Safety Tree Concepts	Manitoba OH&S Regulations	Ontario OH&S Regulations	
	Emergency exits 13.5 An employer and an owner must ensure that emergency exits and means of egress from a workplace are conspicuously marked and designed to enable quick and unimpeded evacuation of the workplace. Stairs to be provided 13.6(1) When work at a construction project site on a multi-storey building or structure has progressed to 10 or more metres above ground level, an employer and a prime contractor must ensure that permanent or temporary stairs to the ground are provided from each working level of the project.	<ul> <li>or columns are erected; or</li> <li>(b) a structure to which a permanent ladder is attached before the structure is raised into position. O. Reg. 213/91, s. 75 (3).</li> <li>77. (1) No work shall be performed in a building or structure with stairs unless the stairs meet the requirements of this section. O. Reg. 213/91, s. 77 (1).</li> <li>(2) Stairs shall have, <ul> <li>(a) a clear width of at least 500 millimetres;</li> <li>(b) treads and risers of uniform width, length and height;</li> <li>(c) subject to subsection (3), stringers with a maximum slope of 50 degrees from the horizontal;</li> <li>(d) landings that are less than 4.5 metres apart measured vertically;</li> <li>(e) a securely fastened and supported wooden handrail on the open sides of each flight; and</li> <li>(f) a guardrail on the open side of each landing. O. Reg. 213/91, s. 77 (2).</li> <li>(3) The stringers of prefabricated stairs erected inside a tower formed by scaffold frame sections shall have a maximum slope of 60 degrees from the horizontal. O. Reg. 213/91, s. 77 (3).</li> <li>(4) A wooden handrail shall measure thirty-eight millimetres by eighty-nine millimetres and shall be free of loose knots, sharp edges, splinters and shakes. O. Reg. 213/91, s. 77 (4).</li> <li>(5) Skeleton steel stairs shall have temporary wooden treads securely fastened in place that are made of suitable planking extending the full width and breadth of the stairs and landings. O. Reg. 213/91, s. 77 (5).</li> </ul> </li> </ul>	O.C. 885-200
Awareness and ability			
Construction process and procedure		<ul> <li>14. (1) A constructor shall appoint a supervisor for every project at which five or more workers will work at the same time. O. Reg. 213/91, s. 14 (1).</li> <li>(3) A supervisor or a competent person appointed by the supervisor shall inspect all machinery and equipment, including fire extinguishing equipment, magazines, electrical installations, communication systems, sanitation and medical facilities, buildings and other structures, temporary supports and means of access and egress at the project to ensure that they do not endanger any worker. O. Reg. 213/91, s. 14 (3).</li> </ul>	
Inspection			
Training	Safe work procedures 19.2 An employer must (a) develop and implement safe work procedures for fire and explosive hazards in the workplace, including hot work if hot work is performed in the workplace; (b) train workers in the safe work procedures; and (c) ensure that workers comply with the safe work procedures.	52 (1.1) Every worker who may be required to use fire extinguishing equipment shall be trained in its use. O. Reg. 145/00, s. 16.	
Additional Comments	No construction site specific requirements	Specific requirements for construction sites	No specific re

### Quebec OH&S Regulations

01, s. 22.

#### equirements for construction sites

**Table 5:** Occupational health and safety regulations for Newfoundland & Labrador, New Brunswick and Nova Scotia.

Fire Safety Tree Concepts	Newfoundland and Labrador OH&S Regulations	New Brunswick OH&S Regulations	
Prevent Fire Ignition			
Control Heat-Energy Source(s)			
Smoking			
Limit Unauthorized Access* (same as entry below, at ‡)			
Other			
Control Source-Fuel Interactions			
Hot Work	<ul> <li>Hot work</li> <li>448. Fire suppression equipment shall be readily available and appropriate to the potential loss exposure at a location where hot work takes place.</li> <li>Gas welding and burning</li> <li>449. (1) Welding, cutting, and similar processes shall be carried out according to the requirements of <ul> <li>(a) CSA Standard W117.2 in "Safety in Welding, Cutting and Allied</li> <li>Processes" or another standard acceptable to the minister;</li> <li>(b) the manufacturer's instructions and recommendations for the equipment being used; and</li> <li>(c) the applicable requirements of these regulations.</li> </ul> </li> <li>Burning and welding <ul> <li>453. (1) Burning, welding or other hot work shall not be done in an area where there is a likelihood of the presence of flammable substances until</li> <li>(a) tests have been done to ensure that work may be safely performed; and</li> <li>(b) suitable procedures have been adopted to ensure that all existing or potential sources of ignition have been eliminated or effectively controlled.</li> <li>(2) Where testing procedures are used, tests shall be conducted at intervals to ensure the continuing safety of workers.</li> <li>(3) Burning, welding or cutting shall not be done where there is a danger of extreme heat coming into contact with a concrete surface unless that surface is protected from the source of heat.</li> </ul> </li> <li>(4) Suitable safety devices to prevent reverse gas flow and to arrest a flashback shall be installed according to the manufacturer's instructions on each hose in an oxygen system between the torch and the regulator.</li> </ul>	<ul> <li>274(1) An employer and an employee shall each comply with the requirements of CSA standard W117.2-94, "Safety in Welding, Cutting and Allied Processes".</li> <li>274(2) This section does not apply where a firefighter is engaged in a rescue. 97-121; 2001-33</li> <li>275(1) No employee shall commence a welding, cutting, burning or soldering operation unless the employee has thoroughly inspected the entire area surrounding the area around the operation to ensure that all combustible, flammable or explosive material, dust, gas or vapour has been removed from the area, if possible, or that adequate precautions have been taken to prevent fire or explosion.</li> <li>275(2) An employer shall not permit any welding, cutting, burning or soldering operation until the precautions required by subsection (1) have been carried out.</li> <li>275(3) An employer and an employee shall each ensure that suitable fire extinguishing equipment in good working order is readily available where any welding, cutting, burning or soldering operation is performed.</li> </ul>	General provisi 109 (1) In this electric or oxy referred to in A "Safety in Weld (a) arc weldir and other weld (b) allied prod thermal adhesi Subsection 109 65, N.S. Reg. 53 (2) An employ requirements of Welding, Cuttin Subsection 109 65, N.S. Reg. 53 111 (1) An en commenced, tl area surroundi been taken (a) to remove produce combr and (b) to preven
Electrical			
Heater			
Other			
Control Fuel			
Flammable and combustible liquids	<ul><li>444.</li><li>(5) Waste material contaminated with a solvent, oil, grease, paint or other flammable substance shall be placed in covered metal containers before</li></ul>		

#### Nova Scotia OH&S Regulations

sions

is Part, "welding or allied process" means any specific type of fuel gas welding or cutting process including those processes Appendix A of the latest version of CSA standard CSA W117.2, ding, Cutting, and Allied Processes", and includes

ng, brazing, solid-state welding, soldering, resistance welding, ding; and

cesses such as arc cutting, oxygen cutting, thermal spraying, sive bonding and other cutting.

9(1) amended: O.I.C. 2000-130, N.S. Reg. 52/2000; O.I.C. 2013-53/2013.

yer shall, where reasonably practicable, comply with the of the latest version of CSA standard CSA-W 117.2, "Safety in ing and Allied Processes".

9(2) amended: O.I.C. 2000-130, N.S. Reg. 52/2000; O.I.C. 2013-3/2013.

mployer shall ensure that, before a welding or allied process is the person who is to operate the equipment has inspected the ing the operation to ensure that adequate precautions have

e from the area all hazardous material or processes that pustible, flammable or explosive material, dust, gas or vapour;

nt fire or explosion.

Fire Safety Tree Concepts	Newfoundland and Labrador OH&S Regulations	New Brunswick OH&S Regulations	
	<ul> <li>disposal and shall not be stored in work areas.</li> <li>(6) Where a volatile or flammable substance, gas or vapour is present, or arises out of material or equipment or from a work process, existing or potential sources of ignition shall be controlled or eliminated.</li> <li>(7) For the purpose of subsection (6), a source of ignition includes an open flame, spark-producing mechanical equipment, welding and cutting processes, smoking, static discharge, electrical equipment or an installation that is not approved for hazardous locations, as specified by the Canadian Electrical Code.</li> <li>(8) Where work involves more than one employer, a principal contractor shall ensure that sources of ignition resulting from the work of one employer are eliminated or adequately controlled where a flammable gas or a flammable liquid is handled, used or stored by another employer.</li> </ul>		
Compressed gas			<ul> <li>(2) Subject to the compressed gas cy</li> <li>(a) in a well-vention</li> <li>52oC;</li> <li>(b) with cylinders into account the gath of the compression of the cylinder of the cylind</li></ul>
Housekeeping/waste			Bulk material in bir 30 An employer s structure used to s (a) has a lid, an a (b) has alternativ Section 30 replace
Storage of Combustibles			
Manage Fire Impact			
Manage Fire			
Control Combustion Process			
Fire Extinguishers			
Suppress Fire			
Fire Department			
Access			
Standpipes			
Hydrants			
Sprinklers			
Control Fire by Construction			

Nova Scotia OH&S Regulations		
to the Fire Safety Act, an employer shall ensure that a portable gas cylinder is stored		
-ventilated storage area where the temperature does not exceed		
nders grouped by types of gas and the groups arranged to take the gases contained;		
and empty cylinders separated;		
distance from all operations that produce flames, sparks or or result in excessive heating of the cylinder;		
; and		
ective devices in place.		

7(2) amended: O.I.C. 2013-65, N.S. Reg. 53/2013.

in bins, hoppers and tanks

yer shall ensure that a bin, hopper, tank or other similar d to store combustible bulk material

an adequate ventilation system and is fire resistant; or

rnative measures that provide an equivalent level of safety.

olaced: O.I.C. 2000-130, N.S. Reg. 52/2000.

Fire Safety Tree Concepts	Newfoundland and Labrador OH&S Regulations	New Brunswick OH&S Regulations	
Compartment			
Building			
System & Operational Readiness			
Water Supply			
Manage Exposed			
Limit Amount Exposed			
Limit Unauthorized Access			
Detection – Manual (Fire Watch)			
Detection - Automatic			
Safeguard Exposed			
Detection – Manual (Fire			
Watch) Detection - Automatic			
Alarms			
Egress	Emergency lighting	Access and Egress	Access and exit
	dangerous to the health and safety of workers, an emergency lighting	all areas where work is performed.	140 (1) An ei
	system shall be provided for the workplace and the exit routes.	113(2) An employer shall ensure that an emergency means of escape is	all work areas.
	(2) An emergency lighting system shall provide dependable illumination while the primary lighting system is off to enable all emergency measures to	provided from any area where the normal means of escape may be rendered dangerous or unusable.	(2) An employ person in the w
	be carried out, including	113(2.1) This section does not apply where a firefighter is engaged in	event of an em
	(a) emergency shutdown procedures, and	structural fire-fighting or rescue.	(3) An employ
	(b) evacuation of workers from the premises.	Stairways	to and exit from
	Temporary floors	(a) is of sufficient strength to sustain a live load of 4.8 kPa	(4) This Sectio
	377. (1) During the erection of a building or structure of skeleton	(b) is a minimum of 1.12 m in width.	firefighting or re
	construction, a temporary floor, decking or formwork shall be installed at the main working level where work is being done.	(c) is pitched not less than 20 degrees and not more than 35 degrees from the horizontal,	Subsection 140 Stairways
	(4) A safe means of access and egress to a main working level referred to in subsection (1) shall be provided	(d) has risers constant in height that are not less than 127 mm and not more than 200 mm,	141 (1) Subje
	(5) A stairway comprised, at a minimum, of framing, treads, midrail and a	(e) has a maximum height of 3.7 m between landings,	permanent stai
	handrail shall be provided to each floor level before construction of the next floor or deck surface is undertaken, and the treads on the stairway	(f) has landings, if any, with a minimum clearance of 1.12 m measured in the direction of the run,	with the Nation Building Code A
	shall not create a tripping or slipping hazard.	(g) has a vertical clearance of 2.05 m from the top of the tread at all points in the stairway,	that Act.
	Stairways	(h) has treads constant in width and not less than 225 mm in width, and	
	403. Stairways, complete with handrails, shall be left intact until access to the level served by the stairway is no longer required.	(i) has a non-slip nosing or a strip of non-slip material not less than 50 mm in width and installed 25 mm from the front edge of the tread on all treads	(2) When
	Access egress and movement	where there may be a hazard of slipping due to the material of the tread. 115(2) Decompose (1)(b) (c) and (b) do not explicitly a consistent to the tread.	Regulations ma
	458. (1) All workplaces shall have safe and appropriate means of access and	115(2) rai agraphs (1)(0), (c) and (n) do not apply to a service stairway.	after this Section
	egress.	(a) is a minimum of 900 mm in width,	permanent stai

Nova Scotia OH&S Regulations
t
employer shall provide a safe means of access to and exit from
yer shall provide adequate information to ensure that every workplace is able to exit the workplace in a safe manner in the nergency.
yer shall provide overhead protection at every means of access m a building, structure or project where there is a hazard of I that may injure a person at or near the workplace.
on does not apply where a firefighter is engaged in structural
D(4) amended: O.I.C. 2000-130, N.S. Reg. 52/2000.
ject to subsections (2) and (3), an employer shall ensure that a
nal Building Code of Canada, as adopted and modified under the Act and the Nova Scotia Building Code Regulations made under
ere the National Building Code of Canada, as adopted and er the Building Code Act and the Nova Scotia Building Code

er the Building Code Act and the Nova Scotia Building Code ade under that Act does not apply to a permanent stairway built ion comes into force, an employer shall ensure that the airway

Fire Safety Tree Concepts	Newfoundland and Labrador OH&S Regulations	New Brunswick OH&S Regulations	
	(2) Work areas shall be arranged to allow the safe movement of workers, equipment and materials.	(b) is pitched not less than 20 degrees and not more than 50 degrees from the horizontal, and	<ul><li>(a) meets or exc</li><li>(b) is certified b</li></ul>
	(3) An aisle or passageway designated for pedestrian traffic shall be clearly	(c) has treads constant in width and not less than 150 mm in width.	the certified des
	indicated by markings or other means and, where practicable, floor or	115(4) An employer shall ensure that a stairway having four or more risers	(3) Where
	<ul> <li>(4) Practical means of emergency escape shall be provided from a work area in which work processes could create an immediate threat to workers, and where regular means of egress could be rendered dangerous or unusable.</li> <li>(5) A walkway shall not be less than 50.80 centimetres wide and shall be</li> </ul>	<ul> <li>(a) that are 2.24 m or less in width, has a handrail and supporting structure on any open side and a handrail on any enclosed side, and</li> <li>(b) that are more than 2.24 m in width, has a handrail and supporting structure on any open side and in the centre and a handrail on any enclosed side.</li> <li>115(5) An employer shall ensure that a handrail and supporting structure</li> </ul>	<ul> <li>(a) the National Building Code Ac that Act does no comes into force</li> <li>(b) there is reasonable</li> </ul>
	accessible by means of a fixed ladder or stairway. (6) A curb shall be installed on an elevated thoroughfare to prevent equipment from running off the open edge of the thoroughfare. Exits and doors	referred to in subsection (4) is constructed so that (a) the height of the handrail and supporting structure from the upper surface of the handrail to the surface of the tread in line with the face of the riser at the forward edge of the tread is not less than 750 mm and not more than 900 mm,	an employer sha the permanent s 142 (1) An em (a) is of sufficie be imposed:
	<ul> <li>Exits and doors</li> <li>459. (1) An emergency exit shall be designed and marked to provide quick and unimpeded exit, and periodic emergency drills shall be held to ensure workers' awareness of the availability of the exits.</li> <li>(2) A door shall not open directly onto a stairway, but shall open onto a floor or a landing having a width that exceeds the swing of the door.</li> <li>(3) A double-acting swing door shall be designed and installed to permit an adequate view through the door where the door presents a safety hazard.</li> <li>(4) A transparent glass door or a glass panel that extends less than 30.48 centimetres from the floor and which could be mistaken for a doorway, shall be constructed of laminated, tempered or wired safety glass meeting the requirements of the National Building Code of Canada.</li> <li>(5) Subsection (4) does not apply where the glass is fitted with bars, or other devices or markings which clearly indicate the presence and position of the door or panel.</li> <li>Stairs</li> <li>460. (1) A flight of stairs with more than 4 risers shall be equipped with handrails as follows:</li> <li>(a) on all open sides of stairway;</li> <li>(b) on one side of an enclosed stairway 1.12 metres in width; and</li> <li>(c) on both sides of enclosed stairways over 1.12 metres wide.</li> <li>(2) The height of the upper surface of a stair rail from and perpendicular to the forward edge of the tread shall be not less than 91.44 centimetres and not more than 1.07 metres.</li> </ul>	<ul> <li>(b) the supporting structure is capable of withstanding a load of 100 kg applied in any direction,</li> <li>(c) the handrail is</li> <li>(i) continuous throughout the flight of stairs and landings,</li> <li>(ii) capable of withstanding a load of 100 kg applied in any direction, and</li> <li>(iii) at least 40 mm wide,</li> <li>(d) a handrail mounted directly on a wall or partition is fixed so as not to interfere with the smoothness of the top and side surfaces, and</li> <li>(e) if brackets are used, the brackets to which a handrail is fixed are spaced not more than 2.4 m apart and have a clearance of at least 40 mm between the handrail and any wall or partition or any obstruction on the wall or partition to which the brackets are attached.</li> <li>116 Where a stairway has treads or landings made of perforated material, an employer shall ensure that the perforated material does not have openings larger than 11 mm.</li> <li>117(1) Where work on a building or structure progresses to one storey or 4.5 m above the lowest floor level, whichever is the lower, an employer shall ensure that permanent stairs or temporary stairs are installed in the building or structure leading from the lowest floor level to all the floors above.</li> <li>117(2) An employer may use guardrails for temporary stairs and landings in place of the handrails and supporting structures required under subsections 115(4) and (5).</li> <li>118 An employer shall ensure that a skeleton steel stairway with treads that are not completed during the construction stages has temporary wooden treads set into the full length and width of the steps and landings.</li> </ul>	<ul> <li>(a) is of sufficient be imposed;</li> <li>(b) has treads the Clause 142(1)(b)</li> <li>(c) is pitched not (d) has risers control than 260 mm in (e) has a maxim (f) has landings, direction of the notes (f) has a vertical stairway; and (h) has treads constairway; and (h) has a guardn the risers are 2.2</li> <li>(a) has a guardn the risers are 2.2</li> <li>(b) has a guardn enclosed side, we Subsection 142(3) (4) An employee installed</li> <li>(a) with posts the constant of the consta</li></ul>
			Clause 142(4)(b) (c) with a secon top railing and th

#### Nova Scotia OH&S Regulations

xceeds the requirements of Section 142; or by an engineer as having been constructed in accordance with sign of an engineer.

al Building Code of Canada, as adopted and modified under the Act and the Nova Scotia Building Code Regulations made under not apply to a permanent stairway built before this Section ce; and

sonable doubt as to whether the permanent stairway is

hall ensure that an engineer provides a written assessment of stairway.

mployer shall ensure that a temporary stairway

ent strength to withstand 4 times the maximum load likely to

that are a minimum of 900 mm in length;

b) amended: O.I.C. 2000-130, N.S. Reg. 52/2000.

not more than 60° from the horizontal;

onstant in height that are not less than 125 mm and not more n height;

mum height of 4 m between landings;

gs, if any, with a minimum clearance of 900 mm measured in the e run;

cal clearance of 2 m from the top of the tread at all points in the

constant in width and not less than 230 mm in width.

(2) repealed: O.I.C. 2013-65, N.S. Reg. 53/2013.

yer shall ensure that a temporary stairway having 4 or more

drail on any open side and a railing on any enclosed side, where .2 m or less in length and

Irail on any open side and in the centre and a railing on any where the risers are more than 2.2 m in length.

(3) amended: O.I.C. 2000-130, N.S. Reg. 52/2000.

yer shall ensure that a guardrail referred to in subsection (3) is

that

d at intervals of not more than 2.4 m, and

ed against movement by the attachment of the posts to the another means that provides an equivalent level of safety; railing that is between 0.90 and 1.06 m above the midpoint of securely fastened to posts secured in compliance with clause

o) amended: O.I.C. 2000-130, N.S. Reg. 52/2000.

ond railing on the inner side of the posts midway between the the midpoint of the tread.

Fire Safety Tree Concepts	Newfoundland and Labrador OH&S Regulations	New Brunswick OH&S Regulations	
			Clause 142(4)(c Subsection 142 (5) An emplo railing of a tem (4), (a) is at least 5 (b) is made of 1 latest version o that provides a Clause 142(5)(b 2013-65, N.S. R 6) An employ mounted direct (a) is fixed so a surfaces of the (b) is continuo (c) is at least 4 (d) where brac more than 2.4 1 railing and any
Awareness and ability			
Construction process and procedure			
Site Inspection Training Additional Community	Emergency training 41. (1) A worker shall be given adequate instruction in the fire prevention and emergency evacuation procedures applicable to his or her workplace. (2) A worker assigned to firefighting duties in a workplace shall be given adequate training by a qualified instructor in fire suppression methods, fire prevention, emergency procedures, organization and chain of command, firefighting crew safety and communications applicable to the workplace in accordance with National Fire Protection Association standards. (3) Retraining for firefighting duties shall be provided periodically, but not less than once a year.		Compliance wit 7 (3) A person r codes of practic regulations, inc Section 7 replac Communicating 7A (1) In add must ensure th (2) Before any necessary infor equipment are code of practic Section 7A add
Additional Comments	No specific construction site requirements	Specific construction site requirements, but not fire safety related	Has construction

#### Nova Scotia OH&S Regulations

c) amended: O.I.C. 2000-130, N.S. Reg. 52/2000.

2(4) amended: O.I.C. 2000-130, N.S. Reg. 52/2000.

over shall ensure that a wooden supporting structure or wooden approach the requirements of subsection

50 mm thick and 100 mm wide; and

No. 1 or No. 2 spruce, pine, or fir as graded according to the of CSA standard CSA 0141, "Softwood Lumber", or other lumber an equivalent level of safety.

b) replaced: O.I.C. 2000-130, N.S. Reg. 52/2000; amended: O.I.C. Reg. 53/2013.

ver shall ensure that a railing of a temporary stairway that is tly on a wall or partition

as not to interfere with the smoothness of the top and side railing;

us throughout the flight of stairs and landings;

10 mm in width; and

ckets are used, has brackets to which a railing is fixed spaced not m apart and has a clearance of at least 40 mm between the wall or partition or any obstruction on the wall or partition to kets are attached.

th policies, procedures, plans and codes of practice must comply with all written policies, procedures, plans and ice established for the purposes of the Act and these cluding undergoing any training required.

ced: O.I.C. 2013-65, N.S. Reg. 53/2013.

g and updating policies, procedures, plans and codes of practice lition to any specific requirements under the Act, an employer nat all policies, procedures, plans and codes of practice are y work is undertaken, an employer must ensure that the rmation, instruction, training, supervision, facilities and provided to implement any part of a policy, procedure, plan or we applicable to a workplace.

ed: O.I.C. 2013-65, N.S. Reg. 53/2013.

on site specific requirements

**Table 6:** Occupational health and safety regulations for Prince Edward Island, Yukon and Northwest Territories.

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
Prevent Fire Ignition			
Control Heat-Energy Source(s)			
Smoking			
Limit Unauthorized Access			
Other			
Control Source-Fuel Interactions			
Hot Work	<ul> <li>37.2</li> <li>The employer shall ensure that a welding and cutting operation is prohibited in an area containing combustible materials, or in the close proximity of explosive or flammable dusts, gases or vapours, unless adequate precautions are taken to prevent fires or explosions.</li> <li>(EC180/87)</li> <li>37.5</li> <li>Fire retardant blankets shall be placed over open gratings to contain slag and sparks produced by welding and cutting operations. (EC180/87)</li> <li>37.8</li> <li>The employer shall ensure that adequate fire extinguishing equipment in good working order is readily available where any welding, soldering or flame-cutting or heating operations or any other process which uses heat application are performed. (EC180/87)</li> <li>37.16</li> <li>(1) The employee shall ensure that a welding or cutting torch is not laid down until the gases have been completely shut off.</li> </ul>		405. (1) Where ensure that no (a) suitable test (i) indicate when quantity sufficient (ii) confirm that (b) the work pro- been implement (2) While hot we described in pa performed and (3) An employee the vicinity of a have been take (4) An employee contained a flar remove the flar work is begun of (5) An employee that has been co has thoroughly
Electrical			
Heater	<ul> <li>7.1 The employer shall ensure that liquid fuel or gas for a temporary heating device in excess of one day's supply shall</li> <li>(a) be stored in safe conditions;</li> <li>(b) not be stored in a building or structure unless in a fire resistant room constructed for the purpose;</li> <li>(c) not be stored adjacent to a means of egress. (EC180/87)</li> <li>7.2 The employer shall ensure that a fuel fired heating device, including a temporary furnace</li> <li>(a) shall be placed on the ground or on a non-combustible floor, but it may be placed upon a wooden floor if it is separated therefrom by 76 mm (3 in.) of non-combustible material covered by sheet metal and extending 600 mm (23.6 in.) beyond all sides of the device;</li> <li>(b) shall be so located, protected and used that it will not ignite</li> <li>(i) tarpaulins or similar temporary enclosures, or</li> </ul>		

#### **Northwest Territories OH&S Regulations**

a flammable substance is or may be present, an employer shall hot work is performed until

- ts have been conducted that
- ether the atmosphere contains a flammable substance in a ent to create an explosive atmosphere, and
- t the work may be safely performed; and
- rocedures developed pursuant to paragraph 398(1)(b) have need to ensure continuous safe performance of the work.
- work is being performed, an employer shall conduct tests aragraph (1)(a) at intervals appropriate to the work being I record the results.
- er shall not require or permit any hot work to be performed in a material that may constitute a fire hazard until suitable steps en to reduce the risk of fire.
- er shall ensure that a container or piping that contains or has immable substance is purged using an effective method to mmable substance from the container or piping before any hot on that container or piping.
- er shall not require or permit any welding or cutting of metal cleaned with a flammable or combustible liquid until the metal v dried.

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
	(ii) wood or other combustible materials;		
	(c) shall be provided with a securely supported short metal pipe to		
	discharge the products of combustion outdoors where necessary;		
	(d) shall, where specified by the manufacturer, be vented to the outside atmosphere to remove harmful or noxious fumes;		
	(e) shall be used only where there is adequate general ventilation while employees are in the building or structure. (EC180/87)		
Other			398. (1) Where stored, produce written proced (a) handle, use spontaneously or (b) perform hot (2) An employe perform work r procedures dev (3) Workers wh
Control Fuel			the procedures
			200 (1) An array
liquids	No person shall use gasoline or highly volatile material for starting fires. (EC180/87)		<ul> <li>399. (1) An empliquids are place</li> <li>(a) are non - co</li> <li>(b) are labelled</li> <li>(c) are located at</li> <li>(2) Where the seplaced is combined</li> <li>(3) A worker she garbage that merequired by this</li> <li>400. An employ kept in recepta</li> <li>Canada 2010 as flammable and</li> <li>401. (1) An employ (a) no gasoline</li> <li>(b) no worker is seplaced.</li> </ul>
			(i) to replenish liquid while the
			building.
			(2) A worker sh
			(a) use gasoline

a flammable substance is or is intended to be handled, used, ed or disposed of at a work site, an employer shall develop ures to ensure the health and safety of workers who , store, produce or dispose of a flammable substance that may ignite or ignite when in combination with any other substance;

t work where there is a risk of fire.

- er shall ensure that all workers who are required or permitted to referred to in subsection (1) are trained in, and implement, the veloped pursuant to subsection (1).
- no perform work referred to in subsection (1) shall implement s developed pursuant to subsection (1)
- ployer shall ensure that materials contaminated by flammable ced in receptacles that
- ombustible and have close fitting metal covers;
- "flammable"; and
- at least 1 m away from other flammable liquids.
- surface on which a receptacle required by subsection (1) is ustible, an employer shall ensure that the receptacle has a n or legs that are not less than 50 mm high.
- hall place materials contaminated by flammable liquids and hay constitute a fire hazard into the appropriate receptacle is section or by section 397.

yer shall ensure that combustible and flammable liquids are icles that meet the requirements of the National Fire Code of s amended from time to time, respecting the storage of combustible liquids

- ployer shall ensure that
- is used to start a fire or used as a cleaning agent; and
- s required or permitted
- a tank on a heating device with a combustible or flammable e device is in operation or is hot enough to ignite the liquid, or
- ar pot, while in use, within 3 m of an entrance to or exit from a

all not

e to start a fire or use gasoline as a cleaning agent; or

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
			(b) replenish a
			liquid while th
			402. An emplo
			(a) suitable pro
			ignition of flan
			(b) all sources
			(c) static charge
			explosive subs
			electrically bo
Compressed gas			
Housekeeping/waste	43.36		397. (1) In this
	Bins used for storing highly combustible dry materials shall be of fire-		processed at a
	resistant construction and provided with lids and an adequate ventilation		(2) Where gark
	system. (EC180/87)		an employer sl
			suitable to the
Storage of Combustibles			
Manage Fire Impact			
Manage Fire			
Control Combustion Process			
Fire Extinguishers	7.4		396. (1) An em
	An approved fire extinguisher of adequate size shall be readily available at		located, inspec
	the location of every temporary heating device. (EC180/87)		workers at the
			(2) An employe
	25.1		(a) each indust
	At least one approved 4.5 kg (10 lb.) ABC multipurpose fire extinguisher		kettle that is in
	shall be provided		(b) each weldi
	(a) in every workshop; (b) is every stored by iteling for each with the materials		(2) caon noral
	(b) in every storage building for combustible materials;		
	(c) in places where welding or flame cutting operations are carried on and for a reasonable time after their conclusion; and		
	(d) on each storey having a floor space of 464.5 m <sup>2</sup> (5000 sq. ft.) or less in		
	an enclosed building being constructed or altered, and an additional fire		
	extinguisher for each additional 464.5 m <sup>2</sup> (5000 sq. ft.) of floor space in the		
	One or more dry chemical extinguishers with a capacity of 2.2 kg (5 lb) ABC		
	multipurpose or equally effective extinguisher shall be provided		
	(a) where flammable liquids are stored or handled;		
	(b) where oil or gas-fired heating equipment is used; and		
	(c) where a tar or asphalt kettle is used. (EC180/87)		
	25.4		
	Fire extinguishers shall be		
	(a) protected from mechanical injury;		

a tank on a heating device with a flammable or combustible ne device is in operation or is hot enough to ignite the liquid

over shall ensure that

- ocedures are developed and implemented to prevent the nmable liquids or explosive dusts that are present at a work site; or potential sources of ignition are eliminated or controlled
- losive atmosphere exists or is likely to exist; and
- ge accumulations during transfer of flammable liquids or stances from one container to another are prevented by nding the containers.

s section, "garbage" does not include waste that is being a waste disposal facility.

bage that may constitute a fire hazard is present at a work site, hall provide covered receptacles for the garbage that are e nature of the hazard.

nployer shall ensure that portable fire extinguishers are selected, cted, maintained and tested so that the health and safety of e work site is protected.

er shall ensure that portable fire extinguishers are placed not n away from

trial open - flame portable heating device, tar pot or asphalt n use; and

ing or cutting operation that is in progress.

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
	(b) located for easy access at suitably marked stations; and		
	(c) maintained in good operating condition. (EC180/87)		
Suppress Fire			
Fire Department			
Access			
Standpipes	<ul> <li>25.5</li> <li>Where a permanent standpipe is to be installed in a building, it shall <ul> <li>(a) be installed progressively, so far as is practicable, as the building construction proceeds;</li> <li>(b) be provided with a valve at each hose outlet;</li> <li>(c) be provided at each hose outlet with a nozzle of not less than 38 mm (1 1/2in.) diameter installed in all storeys in such locations that each portion of the building is protected by means of a hose not over 22 870 mm (900 in.) in length; and</li> <li>(d) have a suitable connection for the municipal fire department located on the store transmission.</li> </ul></li></ul>		
	the street side, not more than 900 mm (36 in.) and not less than 300 mm (12 in.) above grade. (EC180/87)		
Hydrants			
Sprinklers			
Control Fire by Construction			
Compartment			
Building			
System & Operational Readiness			
Water Supply			
Manage Exposed			
Limit Amount Exposed			
Limit Unauthorized Access	20.3 Where a building or other structure being constructed, altered, repaired or demolished is located 2 130 mm (84 in.) or more from a sidewalk or other public way used by pedestrians, a substantially constructed fence or boarding not less than 1 800 mm (72 in.) high shall be constructed if, in the written opinion of an officer, the persons using the sidewalk or other public way might be endangered. (EC180/87)		
Detection – Manual (Fire Watch)			
Detection - Automatic			
Safeguard Exposed			
Detection – Manual (Fire Watch)			
Detection - Automatic			
Alarms			

Northwest Territories OH&S Regulations		

Egress       EMRRGENCY LIGHTING       22       22       22       22         Engress       Emergency lighting shall be provided in places of employment normally used during periods of darbness. Such emergency lighting shall provide a minimum level of 11U III LT (L a) all means of egress from the place of the regular lighting states would create conditions which might endinger the safety of any perion in the building, where a failure of the regular lighting states mouth create conditions which might endinger the safety of any perion in the building, where a failure of the regular lighting fails;       23       24 <th>Fire Safety Tree Concepts</th> <th>Prince Edward Island OH&amp;S Regulations</th> <th>Yukon OH&amp;S Regulations</th> <th></th>	Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
Energispro; jetting phall be provided in places of employment normally used inparticles. Such emergency jetting phall provided in the work spectro of employment. ICE120071       A safety officer may spectro in the winking a standard in respect to the level and employment. ICE120071       (2) a vision and exact that in an area of a building where a failure of the employ is thall ensure that in an area of a building where a failure of the employment infiniting summariants. If where the employment is the building where a failure of the employment infiniting source:       A safety officer may spectro in the spectro lighting.       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) is a vision and vision and vision and the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting source:       (2) a vision and exact the spectro lighting vision and exact the spectro	Egress	EMERGENCY LIGHTING	2(2)	12. The duties of
<ul> <li>6.3 The employer shall ensure that in a net of a building where a failure of the englate lighting system would create conditions which might endanger the sterey of any person in the building, emergency lighting is provided which.</li> <li>(a) turns on automatically when the regular lighting fails;</li> <li>(b) turns on automatically when the regular lighting fails;</li> <li>(c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of the arise; and (c) provides adequate lighting for excuasion of egress; (ECL80/87)</li> <li>7.3 The employer shall ensure that all places where work is performed shall holes estimate and excess and egress from each floor appropriate to the containted may out arise and gress from each floor appropriate to the containted may and the excess of the swing of the doors;</li> <li>(a) homegarty exits shall be designed and marked to provide quick and to immediately excession ad gress from each floor appropriate to the containted may and with necked of the swing of the doors;</li> <li>(b) construction state the applicate shall open to floors arise (c) provided up state; c) provided up state; c) provided up state; c) and and the swing of the doors;</li> <li>(c) framsporent glaces up hall ensure that all places under work is being performed ables or being provided to the excess of the swing of the doors;</li> <li>(c) framsporent glaces and marked to provide quick and (c) be matatt</li></ul>		Emergency lighting shall be provided in places of employment normally used during periods of darkness. Such emergency lighting shall provide a minimum level of 10 lux (1 f.c.) at all means of egress from the place of employment. (EC180/87)	A safety officer may set in writing a standard in respect to the level and quality of illumination, including emergency lighting, standby lighting, and exterior lighting, in any workplace.	(d) provision and the work site.
(a) turns on automatically when the regular lighting fails; (c) provides adequate lighting for execution of the area; and (d) is tested at least once every three months to ensure the system will function in an emergency, but not less frequently than recommended by the manufacturer. (EC180/87)255. (1) In this s vehicles regular (2) An employer, (2) An employer, againty (2) An employer shall ensure that portable heaters are not. (b) located in or adjacent to a means of egress. (EC180/87)255. (1) In this s vehicles regular (2) An employer, (2) An employer. 		6.3 The employer shall ensure that in an area of a building where a failure of the regular lighting system would create conditions which might endanger the safety of any person in the building, emergency lighting is provided which		dangerous to the appropriate eme routes from the
(b) is independent of the regular lighting source;       exit from a veck         (c) provides adequate lighting for execution of the are; and       255, (1) In this is frequently than recommended by         (d) is tested at least once every three months to ensure the system will function in an emergency, but not less frequently than recommended by       255, (1) In this is vehicles regular converves, guth on the synthese months to ensure the system will (2) An employer shall ensure that portable heaters are not       (a) is strategreene         (b) located in or adjacent to a means of egress. (EC180/87)       (b) located in or adjacent to a means of egress. (EC180/87)       (c) is at least 900         15.1       The employer shall ensure that all places where work is performed shall have safe means of access and egress from each floor appropriate to the constitutions of the work area and       (c) is at least 900         (d) at means of access and egress from each floor appropriate to the constitution shall be designed and marked to provide quick and unimpede exit;       (c) is at least 900         (d) at means of access and egress from each floor appropriate to the constitution site is the employer shall ensure that do and warked to provide quick and unimpede exit;       (c) is at least 900         (d) bo stall not open directly on to staliways, but shall open to floors or landing sharing a width in excess of the swing of the doors;       (c) transparent (alse special scaffold or hadder; and every exarvitio, floor appropriate list for exit, including bar progressed to a height of more than 7.315 mm (24.1) above ground level; shall       (a) be provided by a stair, runway, ramp, saffold or ladde		(a) turns on automatically when the regular lighting fails;		253 An employe
(c) provides adequate lighting for evacuation of the area; and255. (1) In this success(d) is tested of tasks once every three months to ensume the system will function in an emergency, but not less frequently than recommended by the manufacturer. (EC180/87)255. (1) In this success7.3 The employer shall ensure that portable heaters are not (b) located in or adjacent to a means of egress. (EC180/87)(a) is strong emo emolyced, (b) has secure for equipment; and (c) has secure for equipment; and (c) is at least 900.15.1The employer shall ensure that all places where work is performed shall have safe means of access and egress from each floor appropriate to the conditions of the work area and (c) is at least 900.256. An employer (c) has secure for each tread shall have safe means of access and egress from each floor appropriate to the conditions of the work area and 		(b) is independent of the regular lighting source;		exit from a work
(d) is tested at least once every three months to ensure the system will function in an emergency, but not less frequently than recommended by the manufacturer. (EC180/87)25. (1) In this, 50 vehicles regulat conveyor, ganth (2) An employer subjected; (3) is strong eno subjected; (b) located in or adjacent to a means of egress. (EC180/87)(2) An employer subjected; (b) located in or adjacent to a means of egress. (EC180/87)(a) is strong eno subjected; (b) located in or adjacent to a means of egress. (EC180/87)(b) as accure for equipment; and (c) is at least of the safe means of access and egress from each floor appropriate to the conditions of the work area and (a) emergency exits hall be designed and marked to provide quick and unimpeded exit; (b) doors shall not open directly on to starways, but shall open to floors or landings having a width in excess of the swing of the doors; (c) transparent glass panels which could be mistaken for doorways shall be clearly (dentified. (EC180/87)(b) emaints (c) transparent glass panels which work to a building has progressed to every excavation, floor, patford and fled estafold where work is being performed above or below ground level, har exists being performed above or below ground level, har exists the employer shall ensure that means of access to every excavation, floor, patford and fled estafold where work is being performed above or below ground level, har exists the and work to a abuilding has progressed to a height of more than 7 315 mm (24 fl.) above ground level, her means of egress shall be by permanent or temporary stails that shall (a) be provided for the entire height from the ground to the uppermost working level; and (b) be continued as the height of the project is increased. (C180/87) 22.25. <th></th> <td>(c) provides adequate lighting for evacuation of the area; and</td> <td></td> <td></td>		(c) provides adequate lighting for evacuation of the area; and		
7.3 The employer shall ensure that portable heaters are not       (a) is strong ero         (b) located in or adjacent to a means of egress. (EC180/87)       (b) is strong ero         15.1       (c) is at least 90         have safe means of access and egress from each floor appropriate to the conditions of the work area and       (c) is at least 90         (a) emergency exits shall be designed and marked to provide quick and unimpeded exit;       (b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) any statis insit         (c) rangement glass panels which could be mistaken for doorways shall be clearly identified. (EC180/87)       (c) as attered width is excess of the swing of the doors;         15.2       On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall.       (a) be maintained in place and in safe condition at all times.         22.1       The employer shall ensure that when any work on a building has progressed to a height of nore there hang? 13.5 mm (24 fL) above ground level, the means of egress shall be by permanent or temporary stairs that shall       (a) be provided by a stair, runway, ramp, scaffold or he query stairs that shall         (b) be continued as the height of the project is increased.       (b) be continued as the height of the project is increased.       (b		(d) is tested at least once every three months to ensure the system will function in an emergency, but not less frequently than recommended by the manufacturer. (EC180/87)		255. (1) In this se vehicles regularly conveyor, gantry
(b) located in or adjacent to a means of egress. [C180/87)       (c) located in or adjacent to a means of egress. [C180/87)         15.1       (c) has secure for equipment; and         The employer shall ensure that all places where work is performed shall have safe means of access and egress from each floor appropriate to the conditions of the work area and unimpedied exit;       256. An employ.         (a) emergency exits shall be designed and marked to provide quick and unimpedied exit;       (b) doors shall not open directly on to stainways, but shall open to floors or landings having a width in excess of the swing of the doors;       (c) transparent glass panels which could be mistaken for doors;       (b) doors shall not open directly on to stainways, but shall open to floors or landings having a width in excess of the swing of the doors;       (c) transparent glass panels which could be mistaken for doors;       (b) any stains ins force, including:         15.2       On construction sites the employer shall ensure that means of access to every exavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall       (a) be provided by a stair, runway, ramp, scaffold or ladder; and       (b) be maintained in place and in safe condition at all times.         22.1       The employer shall ensure that when any work on a building has progressed to a height of more thange work is a building has progressed to a height of mean entry tais that shall       (a) be provided by permanent or temporary stairs that shall         (a) be provided for the entire height from the ground to the uppermost working level; and       (b) be continued as the height of the project is		7.3 The employer shall ensure that portable heaters are not		(2) All ellipioyer
15.1       10 has secure that all places where work is performed shall have safe means of access and egress from each floor appropriate to the conditions of the work area and       (c) is at least 900         (a) emergency exits shall be designed and marked to provide quick and unimpedde exit;       (a) the widths conditions of the work area and       (a) the widths conditions of the work area and         (b) doors shall not open directly on to stainways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly on to stainways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly on to stainways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly on to stainways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly in the doors;       (c) have stairs ins force, including:         15.2       On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall       (a) be provided by a stair, runway, ramp, staffold or ladder; and         (b) be maintained in place and in safe condition at all times.       (EC180/87)       22.1         22.1       The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft, l) above ground level, the means of egress shall be by permanent or temporary stairs that shall       (a) be provided for the entire height from the gr		(b) located in or adjacent to a means of egress. (EC180/87)		subjected;
The employer shall ensure that all places where work is performed shall       (c) is at least 300         have safe means of access and egress from each floor appropriate to the conditions of the work area and       256. An employ:         (a) emergency exits shall be designed and marked to provide quick and unimpeded exit;       (a) the width of open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) any stairs ins force, including the clearly identified. [EC180/87]         15.2       On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall       (a) be provided by a stair, runway, ramp, scaffold or ladder; and         (b) be maintained in place and in safe condition at all times.       (EC180/87)       22.1         The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 fL) above ground level, the means of egress shall be by permanent or temporary stairs that shall       (a) be provided for the entire height from the ground to the uppermost working level; and         (b) be continued as the height of the project is increased.       (EC180/87)       2.2.4		15 1		equipment: and
(a) emergency exits shall be designed and marked to provide quick and       (a) the widths to output of the widths to be the width so of between treads         (b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;       (b) any stairs ins;       (c) transparent glass panels which could be mistaken for doorways shall be clearly identified. (EC180/87)       (b) any stairs ins;       force, including;         15.2       On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall       (a) be provided by a stair, runway, ramp, scaffold or ladder; and       (b) be maintained in place and in safe condition at all times.         (EC180/87)       22.1       The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of agrees shall be by permanent or temporary stairs that shall       (a) be provided for the entire height from the ground to the uppermost working level; and       (b) be continued as the height of the project is increased.         (EC180/87)       (b) be continued as the height of the project is increased.       (EC180/87)       (b) any stair is increased.         (C210/87)       2.2       2.2       (b) be continued as the height of the project is increased.       (c) any		The employer shall ensure that all places where work is performed shall have safe means of access and egress from each floor appropriate to the conditions of the work area and		(c) is at least 900
(b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors; (c) transparent glass panels which could be mistaken for doorways shall be clearly identified. [EC180/87]each tread is lev (b) any stairs ins force, including: force, including: force, including: force, including: force, including: learly identified. [EC180/87]each tread is lev (b) any stairs ins force, including: 		<ul> <li>(a) emergency exits shall be designed and marked to provide quick and unimpeded exit;</li> </ul>		(a) the widths of between treads
(c) transparent glass panels which could be mistaken for doorways shall be clearly identified. (EC180/87)force, including i15.2On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall 		(b) doors shall not open directly on to stairways, but shall open to floors or landings having a width in excess of the swing of the doors;		each tread is lev (b) any stairs ins
<ul> <li>15.2</li> <li>On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall</li> <li>(a) be provided by a stair, runway, ramp, scaffold or ladder; and</li> <li>(b) be maintained in place and in safe condition at all times.</li> <li>(EC180/87)</li> <li>22.1</li> <li>The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of egress shall be by permanent or temporary stairs that shall</li> <li>(a) be provided for the entire height from the ground to the uppermost working level; and</li> <li>(b) be continued as the height of the project is increased.</li> <li>(EC180/87)</li> <li>22.2</li> </ul>		(c) transparent glass panels which could be mistaken for doorways shall be clearly identified. (EC180/87)		force, including
On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall (a) be provided by a stair, runway, ramp, scaffold or ladder; and 		15.2		
<ul> <li>(a) be provided by a stair, runway, ramp, scaffold or ladder; and</li> <li>(b) be maintained in place and in safe condition at all times.</li> <li>(EC180/87)</li> <li>22.1</li> <li>The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of egress shall be by permanent or temporary stairs that shall</li> <li>(a) be provided for the entire height from the ground to the uppermost working level; and</li> <li>(b) be continued as the height of the project is increased.</li> <li>(EC180/87)</li> <li>22.2</li> </ul>		On construction sites the employer shall ensure that means of access to every excavation, floor, platform and fixed scaffold where work is being performed above or below ground level shall		
(b) be maintained in place and in safe condition at all times. (EC180/87)22.1The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of egress shall be by permanent or temporary stairs that shall (a) be provided for the entire height from the ground to the uppermost working level; and (b) be continued as the height of the project is increased. (EC180/87) 22.2		(a) be provided by a stair, runway, ramp, scaffold or ladder; and		
<ul> <li>22.1</li> <li>The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of egress shall be by permanent or temporary stairs that shall</li> <li>(a) be provided for the entire height from the ground to the uppermost working level; and</li> <li>(b) be continued as the height of the project is increased.</li> <li>(EC180/87)</li> <li>22.2</li> </ul>		(b) be maintained in place and in safe condition at all times. (EC180/87)		
The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of egress shall be by permanent or temporary stairs that shall (a) be provided for the entire height from the ground to the uppermost working level; and (b) be continued as the height of the project is increased. (EC180/87) 22.2		22.1		
<ul> <li>(a) be provided for the entire height from the ground to the uppermost working level; and</li> <li>(b) be continued as the height of the project is increased.</li> <li>(EC180/87)</li> <li>22.2</li> </ul>		The employer shall ensure that when any work on a building has progressed to a height of more than 7 315 mm (24 ft.) above ground level, the means of egress shall be by permanent or temporary stairs that shall		
<ul><li>(b) be continued as the height of the project is increased.</li><li>(EC180/87)</li><li>22.2</li></ul>		(a) be provided for the entire height from the ground to the uppermost working level; and		
22.2		(b) be continued as the height of the project is increased. (EC180/87)		
		22.2		

of an employer at a work site include nd maintenance of a safe means of entrance to and exit from

ailure of the regular lighting system is likely to create conditions he health or safety of workers, an employer shall provide nergency lighting of at least 50 lux for a work site and exit e work site.

yer shall provide and maintain a safe means of entrance to and 'k site.

section, "travelway" means any place where workers or rly travel or pass, and includes a ramp, runway, catwalk, bridge, ry or passage.

- er shall ensure that every travelway
- ough to withstand any traffic to which the travelway may be

footing for workers and adequate traction for vehicles or d

- 00 mm wide.
- yer shall ensure that

of treads, the depths of treads and the vertical distances s are uniform throughout the length of any stairway and that vel; and

stalled on or after the day on which this section comes into g temporary stairs, are at least 600 mm wide.

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
	The employer shall ensure that temporary stairs shall		
	(a) be maintained in a safe condition until the permanent stairs have been installed;		
	(b) be not less than 1 200 mm (48 in.) wide. (EC180/87) 22.3		
	The employer shall ensure that skeleton steel stairs shall have temporary wood treads		
	(a) of suitable planking extending the full width of the stairs and landings; and		
	(b) securely fastened in place. (EC180/87) 22.4		
	The employer shall ensure that permanent stairs shall be installed as soon as working conditions permit. (EC180/87)		
	22.5		
	The employer shall ensure stairs and landings shall be designed and constructed to safely support a live load of 488 kg per m (100 lbs. per sq. ft.) with a safety factor of 4 and shall		
	(a) have a vertical distance between landings not exceeding 3 656 mm (12 ft.) and intermediate landings shall have a dimension of not less than 1 117 mm (44 in.) measured in the direction of the run;		
	(b) have a handrail or guardrail securely fastened and supported in place on the open side or sides of each flight and at each landing.		
	(EC180/87)		
	22.6		
	The employer shall ensure that		
	(a) stairs and platforms made of perforated material shall not contain openings larger than 11 mm (7/16 in.);		
	(b) stairs, except service stairs which may be used for access to oiling platforms, machinery, etc., should be not less than 1 117 mm (44 in.) in width clear of all obstructions except handrails, and in no case shall be less than 914 mm (36 in.);		
	(c) the pitch of stairways except service stairways should be between 30 degrees and 35 degrees from horizontal and shall in no case be less than 20 degrees or more than 50 degrees;		
	(d) where the pitch would be less than 20 degrees a ramp shall be used and where the pitch is greater than 50 degrees a fixed ladder shall be used;		
	(e) head room with a vertical clearance of 2 286 mm (7.5 ft.) from the top of the tread on a line with the face of the riser, shall be provided at all points in the stairwell;		
	(f) except for service stairs, the treads exclusive of nosings or projections shall be not less than 229 mm (9 in.) in width and the risers shall not be more than 197 mm (7 3/4 in.) or less than 127 mm (5 in.) in height;		
	(g) the width of the treads and the height of the risers shall be constant in any flight and all stairways having four or more risers shall be equipped with stair railings on any open side;		
	<ul> <li>(h) the top and the bottom treads of any flight shall be clearly distinguishable;</li> </ul>		

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
	(i) enclosed stairways less than 1 117 mm (44 in.) wide shall be equipped with at least one handrail, preferably on the right side descending;		
	(j) stairways 1 117 mm (44 in.) or more in width shall be equipped with one stair railing on each open side and one handrail on each enclosed side;		
	(k) stairways 2 235 mm (88 in.) or more in width shall be equipped with an intermediate handrail down the centre;		
	(I) stair railings shall be constructed in a permanent and substantial manner of wood, pipe, structural metal or other material of sufficient strength;		
	(m) the height of stair railings from the upper surface of the top rail to the surface of the tread in line with the face of the riser at the forward edge of the tread, shall not be less than 762 mm (30 in.), if the railing is used as a handrail the height shall not be more than 864 mm (34 in.);		
	(n) wooden handrails shall be at least 50 mm x 50 mm (2 in. x 2 in.) in size and of smooth finish;		
	<ul> <li>(o) metal handrails shall be at least 38 mm (1 1/2 in.) in diameter;</li> <li>(p) handrails mounted directly on walls or partitions shall be fixed by means of brackets attached to the lower side of the rails so as not to interfere with the smoothness of the top and the side surface of the rails;</li> <li>(q) brackets shall be spaced not more than 2.4 m (8 ft.) apart and shall provide for a clearance of at least 38 mm (1 1/2 in.) between the rails and the walls or any obstruction on the walls;</li> <li>(r) handrail structure shall be capable of withstanding a load of 100 kg (220 lb.) applied in any direction at any point of the rail;</li> <li>(s) the clear width of service stairs shall be at least 914 mm (3 ft.);</li> <li>(t) the pitch of service stairs shall not be more than 50 degrees and the width of the treads shall not be less than 152 mm (6 in.);</li> <li>(u) stairways shall be adequately illuminated and lights shall be located so that they do not cause glare;</li> <li>(v) a non-slip nosing or strip shall be used on all stair treads on which there is danger of slipping due to the material of the tread;</li> <li>(w) a non-slip nosing or strip shall be installed within a distance of 31 mm (1</li> </ul>		
	1/4 in.) from the front edge of the tread and shall be at least 31 mm (1 1/4 in.) wide;		
	(x) a suitable roof or enclosure is provided for outside stairways. (EC180/87)		
Awareness and ability			
Construction process and procedure			395. (1) Ar (a) take all work site a may occur (b) develor safety of a (2) A plan (a) the em (i) soundir

#### n employer shall

I reasonably practicable steps to prevent the outbreak of fire at a and to provide effective means to protect workers from any fire that r; and

p and implement a written fire safety plan that provides for the all workers in the event of a fire.

developed pursuant to subsection (1) must include

nergency procedures to be used in case of fire, including ng the fire alarm,

ng the fire department, and

Fire Safety Tree Concepts	Prince Edward Island OH&S Regulations	Yukon OH&S Regulations	
			(iii) evacuating disabilities;
			(b) the quantit present at the
			(c) the designated
			(d) the training fire safety;
			(e) the holding
			(f) the control
			(3) An employe
			(a) designated are adequately
			(b) the fire safe workers; and
			(c) a fire drill is
Site Inspection			
Training			18. (1) An emp
			when the work
			(a) begins work
			(b) is moved fr
			respect to haza
			(2) The training
			(a) procedures
Additional Comments	No specific construction site requirement section, but does have specific construction site requirements	No specific construction site requirements	No specific con construction si

g endangered workers, with special provisions for workers with

ties, locations and storage methods of all flammable substances work site;

ation of persons to carry out the fire safety plan and the duties of d persons;

of designated persons and workers in their responsibilities for

g of fire drills; and

of fire hazards.

er shall ensure that

persons and workers who have been assigned fire safety duties y trained in, and implement, the fire safety plan;

ety plan is posted in a conspicuous place for reference by

held at least once during each 12 - month period.

ployer shall ensure that a worker is trained in those matters that to protect the health and safety of the worker at a work site ker

k at the work site; or

rom one work activity or work site to another that differs with ards, facilities or procedures.

g required by subsection (1) must include

s to be taken in the event of a fire or other emergency;

nstruction site requirement section, but does have specific ite requirements



# Summary Tables for Guidance Documents and Local By-Laws

Table 7: Alberta notices and Calgary, AB, Bulletins relating to course of construction fire and life safety. (References to each Notice and Bulletin are located at the end of the table.)

Framework Categories	Alberta Notices	Calgary, AB Bulletin
Prevent Fire Ignition		
Control Heat-Energy Source(s)		
Smoking		
Limit Unauthorized Access		
Other		
Control Source-Fuel Interactions		
Hot Work		
Electrical		
Heater		
Other		
Control Fuel		
Flammable and combustible liquids		
Compressed gas		
Housekeeping/waste		
Storage of Combustibles		
Manage Fire Impact		
Manage Fire		
Control Combustion Process		
Fire Extinguishers		
Suppress Fire		
Fire Department		
Access		
Standpipes		
Hydrants		
Sprinklers		
Control Fire by Construction		
Compartment		
Building		[Table Reference AC.1]:
		The objective of the AFC 2006 as related to "Protection of Adjacent Building", according to 2006 AFC 5.6.1.2.(2)(c), "is to limit the
		probability that adjacent buildings or facilities will be exposed to an unaccentable risk of damage due to fire "To meet the intent of
		probability that adjacent buildings of facilities will be exposed to all unacceptable risk of damage due to fire. To meet the intent of
		this Clause all of the requirements of NFC 5.6.1.2 shall be included as requirements:
		• Fire Safety Plan for each site, AFC 5.6.1.3
		Access for firefighting to the building, AFC 5.6.1.4
		• Fire extinguisher on site, AFC 5.6.1.5
		Standpipe systems installed progressively where they are required, AFC 5.6.1.6
		<ul> <li>Hot works – involve heat and hot processes, AFC 5.6.1.7</li> </ul>
		Safe egress – accessible and useable, AFC 5.6.1.8
		Clearance between combustible storage, 3 m separation from buildings, AFC 5.6.1.11
		Iemporary fuel supply meets gas regulations and AFC Part 4, AFC 5.6.1.12
		Fire separation to partially occupied buildings (1 nour), AFC 5.4.1.14
		vvalue as required in partially occupied buildings, Arc 5.0.1.15     No smoking signs posted to meet AFC 2.4.2. AFC 5.6.1.16
		<ul> <li>Flammable and combustible liquids stored and used as per AFC Part 4 AFC 5.6.1.17</li> </ul>
		Dangerous goods used and stored as per AFC Part 3.5. AFC 5.6.1.17
		Disposal of combustible refuse as a regular routine, AFC 5.6.1.19
		Protection during shutdown of fire protection systems, AFC 5.6.1.20

		• Protection and safe egress maintained in buildings that are occ ABC Table 9.10.14.4. Please Note: The Limiting Distance in metres from all exposing building faces for the purposes of meeting AFC 5.6.1.2. Where the spatial separation between buildings is less than the limiting Table 9.10.14.4.A of the ABC, protection of the adjacent structures sha
System & Operational Readiness		
Water Supply		
Manage Exposed		
Limit Amount Exposed		
Limit Unnecessary Access Detection – Manual (Fire Watch)		[Table Reference AC.2]: Question: Does chain-link fencing comply with the above Sentences? Commentary / Relevant Facts: Intent Statements for 8.2.1.3.(2): "To limit the probability that persons will inadvertently wander onto the conditions, which could lead to harm to persons." "To limit the probability that persons will be injured from contact with persons." The intent of providing a fence or barricade around a construction site a) create a barrier against entering (especially by children) into the site b) prevent debris being accidentally thrown out of the site. By limiting the height of a fence to 1.8 m, the Code recognizes that the person is intent on entering a site, he/she will overcome any barrier bu constructed by being properly attached to posts which are well anchor entering. Although holes in such a fence can be misused as toe or finge Code. The closeness of the wire mesh in a chain-link fence will provide an effec Chain-link fences have the following additional advantages: a) relatively low cost for the level of safety they provide, and b) by providing visual access, discouraging theft and vandalism inside a Conclusion: Yes. A chain-link fence is acceptable as fencing for a construction site, t the following exception: Chain-link fences should not be used where construction may cause ha are required to comply with Sentence 8.2.1.1. and Article 8.2.1.2. of th Also acceptable is the use of mobile construction fencing which is typic with wire mesh throughout the interior portion of the panel. A snow fence may not be substituted for chain-link fence as it does not
Detection - Automatic		
Safeguard Exposed		
Detection – Manual (Fire Watch)		
Detection - Automatic		
Alarms		
Egress		
Awareness and ability		
Construction process and procedure	[Table Reference AN.1]: NOTICE Intumescent Coatings on Exterior Sheathing To delay the possible spread of fire during construction, the Alberta Fire Code 2006 (AFC 06) contains provisions requiring fire protection of adjacent buildings during construction. Further guidelines and clarification were provided in a Fire Code Interpretation	[Table Reference AC.1]: The objective of the AFC 2006 as related to "Protection of Adjacent Bui probability that adjacent buildings or facilities will be exposed to an un Clause all of the requirements of NFC 5.6.1.2 shall be included as requi Fire Safety Plan for each site, AFC 5.6.1.3

upied prior to completion, AFC 5.6.1.21 In the Table is to be used as the spatial separation guide between

g distance for the 100% unprotected openings value provided in Il be provided.

he site, which could lead to persons being exposed to unsafe

rough surfaces of the barricade, which could lead to harm to

is to: e, and

ere is an extent to the level of safety that it can provide. If a uilt to prevent such entering. A chain link fence, strongly red into the ground will provide a reasonable barrier against er holds, prevention of such abuse is outside the scope of the

ective barrier against flying debris in construction sites.

site.

to comply with Sentence 8.2.1.3.(1) and Sentence 8.2.1.3.(2) with

azard to the public and where a solid enclosure and covered way ne Code.

ally 1.8m in height and made from welded metal tubing panels

provide adequate stability and strength as a barrier.

ilding", according to 2006 AFC 5.6.1.2.(2)(c), "is to limit the acceptable risk of damage due to fire." To meet the intent of this rements:

(STANDATA FCI-09-02) issued in July 2009.	Access for firefighting to the building, AFC 5.6.1.4
The AFC 06 states:	Fire extinguisher on site, AFC 5.6.1.5
5.6.1.2. Protection of Adjacent Building1) Protection shall be provided for exposed	Standpipe systems are to be installed progressively where they are requ
adjacent buildings or facilities from fire originating from buildings, parts of buildings,	Hot works – involve heat and hot processes, AFC 5.6.1.7
facilities and associated areas undergoing construction, alteration or demolition	Safe egress – accessible and useable, AFC 5.6.1.8
operations. (See Appendix A)	Clearance between combustible storage, 3 m separation from buildings
The Appendix to the AFC 06 states: A-5.6.1.2.(1) Methods or materials to protect adjacent	Temporary fuel supply to meet gas regulations and AFC Part 4, AFC 5.6.
buildings or facilities can range from active to passive systems such as spatial separation.	Fire separation to partially occupied buildings (1 hour). AFC 5.4.1.14
installing water curtains, using construction methods and materials that may include	Watch as required in partially occupied buildings. AFC 5.6.1.15
gypsum sheathing, or erecting a temporary fire barrier such as a fire tarpaulin.	No smoking signs posted, to meet AFC 2.4.2, AFC 5.6.1.16
Background	Elammable and combustible liquids stored and used as per AFC Part 4.
FCI-09-02 outlines a number of methods that can be utilized by a builder, if approved by a	Dangerous goods used and stored as per AFC Part 3
Fire Safety Codes Officer, to comply with the requirement of Article 5.6.1.2, to protect	5. AFC 5.6.1.17
huildings from fire during construction	Disposal of combustible refuse as a regular routine AFC 5.6.1.19
Where combustible sheathing is installed on a building one of the methods outlined in	Protection during shutdown of fire protection systems AFC 5.6.1.20
FCI-09-02 is:	Protection and safe egress shall be maintained in buildings which are or
- application of an acceptable intumescent or flame-retardant coating in accordance with	ABC Table 9 10 14 4 Please Note: The Limiting Distance in metres from
the manufacturer's directions and the criteria utilized in any performance tests	all exposing building faces for the purposes of meeting AFC 5.6.1.2
A number of products have come into the marketplace and are being marketed as	Where the snatial senaration between buildings is less than the limiting
meeting the requirements for protection called for in Article 5.6.1.2, and described in ECL.	Table 9 10 14 4 A of the ABC protection of the adjacent structures shall
In many instances, these products are also being marketed as an alternative to gynsum	ITable Reference AC 21:
sheathing to meet requirements of the Alberta Building Code 2006 (ABC 06)	8 2 6 2 Protection of Adjacent Buildings
The use of such products as an alternative solution under the ABC 06 is discussed in the	$(1)[FO_2-OS1, 2] OP3, 1]$
"NOTICE – Fire Resistant Coatings on Exterior Sheathing" issued by Alberta Municipal	
Affairs Safaty Services Branch on Eebruary 1, 2012	[Table Reference AC 2]:
Recommendation	Public Protection Site Safety Plan
Alberta Municipal Affairs recommends that Fire SCOs only consider wood-based sheathing	Commencing May 1, 2012, it is mandatory to provide a public protection
materials treated with fire-resistant coatings, as one of the accentable methods of	alterations of the facade on buildings five storeys or greater within The
matching the requirements of Article 5.6.1.2, when the product adequately addresses:	3.2.6 of the current Alberta Building Code
Elame Spread - the product should have flame spread performance characteristics of less	The requirement for mandatory public protection site safety plans is a
than 25 as tested according to CAN/ULC-S102 "Test for Surface Burning Characteristics of	feel safe in public spaces. Authority to require a public protection site s
Building Materials and Assemblies")	Code to limit the probability that as a result of the design construction
The manufacturer should empirically demonstrate, through listing or marking, compliance	building will be exposed to an unaccentable risk of injury
to this standard in accordance with the requirements of the Standards Council of Canada	Division B Dart 8 of the Code stinulates the safety measures at construct
Weather Resistance - the product should be capable of withstanding expected weather	Division C Sentence 2.2.2.1 (1) states:
exposures and maintaining flame spread performance characteristics during the period it	Sufficient information shall be provided to show that the proposed wor
will be exposed	adjacent property. Process for reviewing a site safety plan. While the re
While exposed. Water Vanour Transmission - the product as installed should have no detrimental effects	site safety plans themselves are not a nilot initiative. They are considered
to the building envelope's ability to shed moisture	For the duration of the nilot phase, the public protection site safety plan
Quality Control, the manufacturer must be able to demonstrate that the product is	normit application; however, it must be submitted for review prior to the
Quality Control - the manufacturer must be able to demonstrate that the product is	offect this means that partial building permits for work below grade wi
method	been submitted for review
Function, the builder must demonstrate how the installed product will contribute to the	The review of the public protection site safety plan must be completed
function - the builder must demonstrate now the instance product win contribute to the	Ine review of the public protection site safety plan must be completed
is being installed on	Permits for work above grade.
is being installed on.	once the public protection site safety plan review is complete and the p
under construction the builder must ansure that the installation meets the chiestives of	The increasing will occur for the duration of the authorized construction
the Alberta Puilding Code	1 Itoms to be addressed at the pro-construction site meeting are:
une Albenta building Coue. Intent - the installed product may be considered one of a number of elements which will	1. The names of the owner and constructor and an omorgonou phone no
contribute to the overall approved Fire Safety Plan for the building site	b) protection precedures for folling debris tools and equipment
icontribute to the overall approved rife safety Pidli for the building site.	b) protection procedures for family debris, tools and equipment,
	ic) protection of the public during stripping of formwork,

uired, AFC 5.6.1.6

s, AFC 5.6.1.11 5.1.12

AFC 5.6.1.17

ccupied prior to completion, AFC 5.6.1.21 In the Table is to be used as the spatial separation guide between

g distance for the 100% unprotected openings value provided in all be provided.

on site safety plan for construction, demolition and major e City of Calgary or designated as a high building as per article

new initiative that aligns with The City's goals to ensure people safety plan It is a stated major objective of the Alberta Building n or demolition of a building, a person in or adjacent to the

ction and demolition sites in general terms.

ork will conform to this Code and whether or not it may affect review process is currently in a pilot phase the public protection red mandatory if your project meets the stated criteria. an does not need to be submitted concurrently with the building the issuance of any authorization to commence construction. In *v*ill only be issued once the public protection site safety plan has

prior to the issuance of the full building permit or partial

building permit is issued, a pre-construction site meeting will ance with the plan. ion activity.

umber,

	d) storage of materials at high heights,
	e) storage and handling of construction waste materials,
	f) protection of the public walkways and public thoroughfares,
	g) protection of the public during hoisting and lifting operations,
	h) provide letter of engagement for engineered design of temporary ho
	i)any process or procedure to protect the public during construction.
	<ol><li>Elements of public protection must be incorporated into a hazard ass</li></ol>
	the following:
	a) ensure regular site meetings occur with representatives of each trade
	practices or safety concerns on and adjacent to the site,
	<ul> <li>b) include a procedure for remediation of any unsafe condition which s</li> </ul>
	c) the person in charge of construction at the project shall maintain and
	documentation of all aforementioned processes and procedures.
	3. The authority having jurisdiction may inspect, review, examine and e
	site safety plan applies.
	4. The authority having jurisdiction may request an owner to complete
	building.
	5. The owner or authorized agent shall ensure the implementation of the second se
	6. The public protection site safety plan shall be reviewed and updated
	constructors are engaged or other conditions change.
	7. When required, the site safety plan shall include an Advance Weathe
	jurisdiction.
	All construction work must also comply with applicable City of Calgary E Owner and constructor responsibilities
	The owner is responsible for construction, maintenance, care and contr
	the contractor. When a public protection site safety plan is required, th
	the plan is current and maintained, and in view of all site personnel on
	granted. No construction or demolition of the buildings shall be underta
	the authority having jurisdiction is submitted.
	Owners and constructors are obligated by the Alberta Safety Codes Act
	activity is undertaken, is done in a safe manner and that no person is ex
	intended to enhance safety measures around activities governed by the
	present, the requirements for protection would apply.
Site Inspection	
Training	
Additional Comments	

Table 7 Notes:

References used in Table are:

AN.1 Alberta Municipal Affairs - Safety Services Branch, Notice, Intumescent Coatings on Exterior Sheathing, ISBN #978-0-7785-7129-2, February 2012.

AC.1 Calgary Fire Marshal Bulletin, Regarding: Alberta Fire Code 2006 Article 5.6.1.2 Protection of Adjacent Building, May 14, 2010.

AC.2 The City of Calgary Regulation Bulletin, RB06-005, Issued November 14, 2008, Previously I-47, Use of Chain-Link or Fencing and Barricading Construction sites.

AC.3 The City of Calgary, Advisory Bulletin, April 2012, Public Protection Site Safety Plan.

- parding and false work, and
- sessment; these elements must include, but are not limited to
- le and constructor, to discuss the remediation of any unsafe work
- hall be documented, and d make available to the authority having jurisdiction,
- valuate any process or activity to which the public protection
- a public protection site safety plan for a structurally unsafe
- he public protection site safety plan. as new hazards are identified or created, when new
- er Forecasting System acceptable to the authority having
- Bylaws and Occupational Health and Safety Act requirements.
- rol of a construction site. During construction the owner is often ne owner, or constructor shall prominently post the plan, ensure the project, until the completion or occupancy has been aken unless a public protection site safety plan, acceptable to
- to ensure that when a demolition or construction process or xposed to undue risk. The public protection site safety plan is e Alberta Safety Codes Act. Where the public is expected to be

Framework Categories	Ottawa, ON, By-Law for Property Standards [ONO.BL1 (Application limited to small residential)]	Ottawa, ON, By-Law for Property Maintenance[ONO.BL2] (Application limited to small residential)	Toronto,
Prevent Fire Ignition			
Control Heat-Energy Source(s)			
Smoking			
Limit Unauthorized Access			
Other			
Control Source-Fuel Interactions			
Hot Work			
Electrical			
Heater			
Other			
Control Fuel			
Flammable and combustible liquids			
Compressed gas			
Housekeeping/waste	<ul> <li>Part II, Residential Property Standards, Yards</li> <li>(20) temporary storage of materials or refuse resulting solely from the construction, demolition or alteration of a building or part thereof may be placed on the property, provided that,</li> <li>(a) it is removed frequently and in its entirety from the property;</li> <li>(b) it will not cause risk to the health or safety of any persons; and</li> <li>(c) it is not stored in an unsightly manner.</li> </ul>	REMOVAL OF REFUSE AND DEBRIS 3 (1) Where on any lands there is refuse or debris, the owner or occupant shall remove the refuse or debris from the land so that the land is left in a clean condition. (2) Where on any lands there is heavy undergrowth, long grass or weeds, the owner or occupant shall clear the lands of such heavy undergrowth, long grass or weeds so as to be consistent with the surrounding environment.	
Storage of Combustibles			
Manage Fire Impact			
Manage Fire			
Control Combustion Process			
Fire Extinguishers			
Suppress Fire			
Fire Department			
Access			
Standpipes			
Hydrants			
Sprinklers			
Control Fire by Construction			
Compartment			
Building			
System & Operational Readiness			
Water Supply			
Manage Exposed			
Limit Amount Exposed			
Limit Unnecessary Access			ARTICLE III Fend [Adopted 2000- §363-13. Defini As used in this a RESIDENTIAL SI

Table 8: Ottawa and Toronto, ON, By-Laws relating to course of construction fire and life safety. (References to each Bulletin are located at the end of the table.)

ON, Municipal Code for Construction and Demolition [ONT.BL1]
ng of Construction and Demolition Sites
10-05 by By-law No. 721-2000]
ions.
rticle, the following terms shall have the meanings indicated:
E-A construction or demolition site for a building that is used

1	only for resid	lenti
	beight and no	ot m
	8262 14 Eon	SC III
		ntor
	A. Utiless gra	ard
	construction	UIU Situ c
	work in the c	ILY C
	construction	
	operated or e	equi
	B. The Chief E	3ulla
	requirement	in St
	satisfied that	con
	public after h	avin
	(1) The proxit	mity
	(2) The proxit	mity
	streets, parks	ة, bu
	(3) The effect	tiven
	(4) The feasib	oility
	(5) Any propo	osed
	(6) The hazar	d pr
	site;	
	(7) The expec	cted
	(8) Any other	safe
	C. Where wo	rk or
	or abandone	d, th
	under Subsec	ction
	holder.	
	§363-15	
	General requ	irem
	Every fence r	equi
	A. Be erected	l at t
	B. Be built to	dete
	C. Have no ra	iils, d
	openings on t	the o
	D. Contain no	о оре
	millimetres a	bove
	and from the	site
	E. At any acce	ess c
	(1) Contain w	/ire r
	entering or e	xitin
	(2) Be built to	o spe
	equivalent to	, the
	(3) Deter ent	rv by
	F. Be maintai	ned
	(1)In good re	pair
	and be free o	of gra
	[Amended 20	)01-0
	(2) Free from	i hea
	(3) So that an	iv ac
	the site is un	attei
	G. Be remove	ed no
	demolition w	/ork
	8363-16Fenc	e he
	3505 IN Che	2

- ial purposes and that is not more than three storeys in building nore than one level below grade.
- equired; conditions for exemption.
- an exemption under Subsection B, a person issued a
- demolition permit under the Building Code Act, 1992, for any
- of Toronto shall erect and maintain a fence to enclose the demolition site, including any areas where equipment is ipment or material is stored.
- ding Official is authorized to grant an exemption from the Subsection A to erect a fence if the Chief Building Official is nditions at a site would not present a particular hazard to the ng regard for:
- of the site to occupied dwellings;
- of the site to places frequented by the public, including usinesses and workplaces;
- ness of any existing fencing adjacent to the site;
- and effectiveness of fencing the site;
- security measures to deter entry to the site;
- resented by the activity occurring and materials used on the
- I duration of the hazard; and
- fety considerations.
- on a construction or demolition site is substantially suspended he Chief Building Official may revoke an exemption granted
- B by serving written notice of the revocation on the permit
- nents
- ired by this article shall:
- the perimeter of the site to fully enclose the site.
- ter entry by unauthorized persons or vehicles.
- other horizontal or diagonal bracing, attachments or pattern of outside that would facilitate climbing.
- bening more than 150 millimetres wide or less than 900
- ve the bottom of the fence except where required for access to
- opening, be equipped with gates that shall:
- mesh or similar material sufficient to provide visibility for traffic ng the site;
- ecifications that provide performance and safety at least fence; and
- y unauthorized persons;
- r with no gaps larger than 100 millimetres below the fencing affiti and posters;
- -04-27 by By-law No. 218-2001]
- alth, fire and accident hazards; and
- ccess opening is closed and locked or securely reinstalled when ended.
- ot later than 30 days after completion of the construction or
- eight.
|                          |  | A fence required     |
|--------------------------|--|----------------------|
|                          |  | A. II elected off a  |
|                          |  | less than 1.8 met    |
|                          |  | P If procted on a    |
|                          |  | b. Il elected oll a  |
|                          |  | C If erected on a    |
|                          |  | than 1.9 motros      |
|                          |  | 8262 17Eonco co      |
|                          |  | A fonce required     |
|                          |  | A lence required     |
|                          |  | A. If effected bett  |
|                          |  | B. If built of woo   |
|                          |  | B. II built of woo   |
|                          |  | scrowed to 80 m      |
|                          |  | screwed to 89 m      |
|                          |  | centres and emp      |
|                          |  | support, and sec     |
|                          |  | intermediate los     |
|                          |  | C If built with pl   |
|                          |  | c. If built with pr  |
|                          |  | than 1.2 motro c     |
|                          |  | with the top and     |
|                          |  | gauge lacing cab     |
|                          |  | post                 |
|                          |  | D If built with ch   |
|                          |  | D. II built with the |
|                          |  | not more than 2      |
|                          |  | the ground and       |
|                          |  | F Any hoarding       |
|                          |  | law may form na      |
|                          |  | F The fence may      |
|                          |  | may be built of o    |
|                          |  | nerformance and      |
|                          |  | Building Official    |
|                          |  | §363-18Conflicti     |
|                          |  | Where this articl    |
|                          |  | applies.             |
| Detection – Manual (Fire |  |                      |
| Watch)                   |  |                      |
| Detection - Automatic    |  |                      |
| Safeguard Exposed        |  |                      |
| Detection – Manual (Fire |  |                      |
| Watch)                   |  |                      |
| Detection - Automatic    |  |                      |
| Alarms                   |  |                      |
| Egress                   |  |                      |
| Awareness and ability    |  |                      |
| Construction process and |  |                      |
| procedure                |  |                      |
| Site Inspection          |  |                      |

by §363-14 shall:

a residential site between an excavation on the site and a public that is within 3.0 metres of the excavation, have a height not tres above the grade outside the enclosed area.

any other residential site, have a height not less than 1.2 metres outside the enclosed area.

any other construction or demolition site, have a height not less above the grade outside the enclosed area.

onstruction standards.

I by §363-14 shall be built to the following minimum standards: ween an excavation and a public sidewalk or lane that is within e excavation, the fence shall be built of wood.

bd, the outside face shall be smooth exterior grade plywood or 5 millimetres thick that is close-boarded, securely nailed or nillimetre by 89 millimetre vertical posts spaced at 2.4 metre bedded sufficiently deep into the ground to provide a rigid curely nailed or screwed to 39 millimetre by 89 millimetre secured to the vertical posts at the top, bottom and cations at 600 millimetre centres.

astic mesh, the fencing shall be fastened securely at 200 es to steel T or 50 millimetre wide U posts, spaced at not more centres and embedded at least 600 millimetres into the ground, bottom of the plastic mesh secured horizontally by an 11le threaded through the mesh and looped and fastened to each

hain link, the mesh shall have openings no larger than 50 shall be fastened securely both to vertical steel posts, spaced at .4 metre centres and embedded at least 600 millimetres into to top and bottom horizontal steel rails or 9-gauge steel wire. . canopy or similar protective barrier required under provincial art of the fence.

y be a combination of the fence types specified in this article or other materials if the fence can be shown to provide d safety equivalent to fence types specified and the Chief

authorizes its use.

ing provisions.

le conflicts with any other by-law, the more restrictive by-law

Training		
Additional Comments		
Table O Materi		

Table 8 Notes:

Table References are:

ONO.BL1 City of Ottawa BY-LAW NO. 2013-416, A by-law of the City of Ottawa to provide for standards under which properties are maintained, Enacted December 11, 2013, City Council Authority CPSC Report 26, Item 6. ONO.BL2 City of Ottawa By-Law No. 2005-208, Property Maintenance By-Law, Enacted May 11, 2005.

ONT.BL1 Toronto Municipal Code Chapter 363, Building Construction and Demolition, Enacted September 9, 2011.



## List of Documents Reviewed

A summary of the documents used in the preparation of this report and their online locations, where available, is presented in Table 10. To assist in the identification of the different types of documents, a colour code is identified in Table 9. Table 9: Key to the table of documents listed in Table 10.

Colour	Description of Type of Document and Location of Applicability
	Canada
	Province or Territory
	City or Municipality that is an Authority Having Jurisdiction
	Documents related to the NBCC Part 8 adoption, adaption or
	similar requirements
	Documents related to the NFCC Section 5.6 adoption, adaption
	or similar requirements
	Other document related to the NBCC Part 8 or NFCC Section 5.6
	requirements (e.g. Alberta Standata, etc.)
	OH&S related documents
	Local by-laws and guidance for application
	Additional information or useful links

Table 10: List of documents used in the preparation of this report, including online locations where publically available. (Some NRCC websites were partially locked down at the time this report was prepared. It is anticipated that the technical issues with the website will be resolved and therefore the online locations are included for future reference.) (The key to the use of colours to denote the types of documents is presented in Table 9.)

Abbreviation	Document Description	Online Location	Comment or Notes
Used in this		(If publically available document is not available then the publisher's site is included.)	
Report			
	Canada		
2010 NRCC	2010 National Building Code of Canada 2010, Canadian Commission	http://www.nrc-cnrc.gc.ca/eng/publications/codes centre/2010 national building code.html	
	on Building and Fire Codes, National Research Council of Canada,		
	Ottawa, Canada.		
2010 NFCC	2010 National Fire Code of Canada, 2010, Canadian Commission on	http://www.nrc-cnrc.gc.ca/eng/publications/codes_centre/2010_national_fire_code.html	
	Building and Fire Codes, National Research Council of Canada,		
	Ottawa, ON, Canada.		
	Canada Occupational Health and Safety Regulations, SOR/86-304,	http://laws.justice.gc.ca/eng/regulations/sor-86-304/index.html	
	Last amended on May 29, 2014.		
2006 486	Alberta	http://www.ggo.ggo.go.go.logo/wybligstiggo/ggdeg_gggtes/2000_olherts_building_ggde_btssl	
2006 ABC	2006 Alberta Building Code, 2006, National Research Council of	nttp://www.nrc-cnrc.gc.ca/eng/publications/codes_centre/2006_alberta_building_code.ntmi	
2006 ΔΕC	2006 Alberta Eire Code 2006 National Research Council of Canada	http://www.prc-cprc.gc.co/eng/publications/codes_centre/2006_alberta_fire_code.html	
2000 AI C	Ottawa ON Canada	http://www.mc-cmc.gc.ca/eng/publications/codes/centre/2000/alberta/me/code.ntm	
Standata FCI-	Alberta Municipal Affairs. Fire Code Interpretation. Standata FCI-09-	http://municipalaffairs.alberta.ca/documents/ss/STANDATA/fire/fci/FCI-09-03.pdf	
09-03	02, July 2009, Protection of Adjacent Building, Alberta Municipal		
	Affairs, Edmonton, AL, Canada.		
Standata FCI-	Alberta Municipal Affairs, Fire Code Interpretation, Standata 06-	http://municipalaffairs.alberta.ca/documents/ss/STANDATA/fire/fci/FCI-09-01.pdf	
09-01	BCB-002-R1, July 2008, Occupancy of Buildings under Construction,		
	Alberta Municipal Affairs, Edmonton, AL, Canada.		
Standata FCI-	Safety Services Branch, Notice, Intumescent Coatings on Exterior	http://municipalaffairs.alberta.ca/documents/ss/STANDATA/fire/fci/FCI-09-02.pdf	
09-02	Sheathing, ISBN #978-0-7785-7129-2, February 2012, Alberta		
	Municipal Affairs, Edmonton, AL, Canada.		
Standata 06-	Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-12-	http://www.municipalaffairs.alberta.ca/documents/ss/STANDATA/building/bcb/06BCB002.pdf	
BCB-002	01, May 2012, Application - Alberta Fire Code, Alberta Municipal		
	Affairs, Edmonton, AL, Canada.		

Abbreviation Used in this	Document Description	<b>Online Location</b> (If publically available document is not available then the publisher's site is included.)
Report		
Notice,	Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-09-	http://www.municipalaffairs.alberta.ca/documents/ss/ STANDATA/fire/IntumescentCoatingsOnExteriorSheathing.p
Intumescent	02. July 2009. Protection of Adjacent Building, Alberta Municipal	
Coatings on	Affairs Edmonton Al Canada	
Extorior		
Cheething		
Sneathing		
	Alberta OHS Act, Published on October 01, 2013, Legislative	nttp://work.alberta.ca/SearchAARC/35.html
	Assembly of Alberta, Edmonton, AL, Canada.	
	Alberta Regulation, Published on October 01, 2013, Published on	http://work.alberta.ca/SearchAARC/36.html
	October 01, 2013, Legislative Assembly of Alberta, Edmonton, AL,	
	Canada.	
-	Alberta Code, Published on July 01, 2009, Legislative Assembly of	http://work.alberta.ca/SearchAARC/38.html
	Alberta Edmonton Al Canada	
	Alberta Code Explanation Guide, Published on July 01, 2009,	nttp://work.alberta.ca/SearchAARC/37.html
	Legislative Assembly of Alberta, Edmonton, AL, Canada.	
	Alberta Municipal Affairs, Fire Code Interpretation, Standata FCI-12-	http://www.municipalaffairs.alberta.ca/documents/ss/STANDATA/fire/fci/FCI-12-01-Application-AlbertaFireCode.pd
	01, May 2012, Application - Alberta Fire Code	
	Calgary, AB	
	Calgary Fire Marshal Bulletin, Regarding: Alberta Fire Code 2006	https://www.calgary.ca/CSPS/Eire/Documents/alberta_fire_code_5_6_1_2_pdf?poredirect=1
	Article 5.6.1.2 Protection of Adjacent Building, May 14, 2010	
	Calgary AL Canada	
	Practical Guide for Construction Sites in Calgary A Guide to Poles	http://calgary.csc.dcc.ca/img/content/city_of_calgarypractical_guide_for_construction_sites_in_calgaryanne
	Possponsibilities and logiclation Governing construction and	
	Demolition in Colgany, Devised June 2011. The City of Colgany	
	Colgany, AL Conodo	
	City of Colorer Decidetion Dullatin, DDOC 005, Jacuard Neuropher 14	http://www.eslage.co/DDA/ad/Documents/huilding/worulation_hullation/worulation_hullation_hOC_005_adf
	City of Calgary Regulation Bulletin, RB06-005, Issued November 14,	nttp://www.caigary.ca/PDA/pd/Documents/building/regulation_builetins/regulation_builetin_rbu6_005.pdf
	2008, Previously I-47, Use of Chain-Link or Fencing and Barricading	
-	Construction sites, Calgary, AL, Canada.	
	City of Calgary, Advisory Bulletin, April 2012, Public Protection Site	http://verticalaccess.ca/wp-content/uploads/2014/05/City-of-Calgary-Public-Safety-plan.pdf
	Safety Plan, Calgary, AL, Canada.	
	List of The City of Calgary, Building Regulation Bulletins	http://www.calgary.ca/PDA/pd/Pages/Permits/Building-permits/Regulation-Bulletins.aspx
	City of Calgary Fire Department, Fire Prevention Bureau, Fire	http://www.calgary.ca/csps/fire/documents/fire_access_standard.pdf?noredirect=1
	Department Access Standard, October 23, 2008, Calgary, AL,	
	Canada.	
	High-Intensity Residential Fires Working Group Final Report	http://www.municipalaffairs.alberta.ca/documents/ss/HIRE_Final_Reportweb.pdf
	October 31, 2007, Alberta Municipal Affairs and Housing	
	Edmonton, AL Canada.	
	Edmonton, AB	
	LIST OF DY-IAWS	nttp://www.edmonton.ca/bylaws_licences/bylaws/bylaws-a-z.aspxc

	Comment or Notes
<u>odf</u>	The Article number referenced in the document relates most closely to 2006 AFC 5.6.1.2.(2).(c) and 2010 NFC 5.6.1.2, instead of the reference to 2006 AFC 5.6.1.2.
<u>df</u>	Clarification on the application of the version of the Alberta Fire Code to be referenced.
	The Article number referenced in the document relates most closely to 2006 AFC 5.6.1.2.(2).(c) and 2010 NFC 5.6.1.2, instead of the reference to 2006 AFC 5.6.1.2.
endix_b.pdf	f
	The building owner is responsible for preparing a fire safety plan, acceptable to the Fire Marshal, and appointing supervisory staff to carry out the same in all public assembly buildings, care or detention buildings, all buildings equipped with a fire alarm, demolition and construction sites, storage areas, areas where flammable liquids or combustible liquids are stored or handled and areas where hazardous processes or operations occur.
	A section on Construction Site Fire Safety and Security

	British Columbia	
2012 BCBC	2012 British Columbia Building Code 2012, Office of Housing and	http://www.bccodes.ca/building-code.aspx
	Construction Standards & National Research Council Canada,	
	Ottawa, UN, Canada.	http://www.bacadas.co/building.codo.com
2012 BCFC	Construction Standards & National Research Council Canada	
	Ottawa ON Canada	
	WorkSafeBC, Part 20 Construction, Excavation and Demolition.	http://work.alberta.ca/SearchAARC/37.html
	2013, Workers' Compensation Board of British Columbia.	
	Other useful links	www.housing.gov.bc.ca/mod/consult.htm
	Vancouver, BC	
	Vancouver Building By-Law No. 10908, A By-law to regulate the	http://former.vancouver.ca/blStorage/10908.PDF
	construction of buildings and related matters and to adopt the	
	British Columbia Building Code, The Council of the City of Vancouver	
	(Enacted 1 April, 2014), Vancouver, BC, Canada.	
	Vancouver Fire By-law No. 8191, A by-law respecting the prevention	http://vancouver.ca/your-government/fire-bylaw.aspx
	and suppression of fire, the regulation of dangerous goods and	
	explosives and the administration of the fire department (2002 with	
	Amendments to July 22, 2014), Vancouver, BC, Canada.	
	City of vancouver Bulletin 2002-001-EV, Construction Site Wastes,	<u>http://tormer.vancouver.ca/commsvcs/LICANDINSP/bulletins/2002/2002-001.pdt</u>
	Chief Building Official Vancouver BC Canada	
	City of Vancouver Bulletin 2011-0003-AD May 10 2011	http://former.vancouver.ca/commsvcs/LICANDINSP/hulletins/2011/2011-003.pdf
	WorkSafeBC Compliance or Refusal of Inspection Service. Office of	
	the Chief Building Official, Vancouver, BC, Canada.	
-	City of Vancouver, Construction of New buildings/Addition to	http://vancouver.ca/files/cov/const-new-bldg-add-existing-bldg-app.pdf
	Existing Buildings, Vancouver, BC, Canada.	
	City of Vancouver, Bulletin 2012-001-BU, March 29, 2012, Revised	http://former.vancouver.ca/commsvcs/LICANDINSP/bulletins/2012/2012-001.pdf
	October 29, 2012, Demolition of Buildings, Community Services	
	Group, Licenses and Inspections, Vancouver, BC, Canada.	
	City of Vancouver, Bulletin 2004-002 EL April 19, 2007, Permits for	http://former.vancouver.ca/commsvcs/LICANDINSP/bulletins/2004/2004-002.pdf
	Temporary Power Service Connection, Community Services Group,	
	A summary of Vancouver by-laws	http://vancouver.ca/vour-government/vancouver-building-bylaw.aspy
	A list of bulloting and advisoriog	http://former.vancouver.ca/your-government/vancouver-building-bylaw.aspx
	District of North Vancouver	
	District of North Vancouver Fire Bylaw, Bylaw 7581, Effective date	http://www.dnv.org/upload/pcdocsdocuments/ct6m01!.pdf
	June 21, 2004, Date of adoption December 12, 2012, North	
	Manitoba	
	Manitoba Buildings and Mobile Homes Act 2012, B93, Manitoba	http://web2.gov.mb.ca/laws/statutes/ccsm/b093e.php
	Government, Winnipeg, MB, Canada.	
	31/2011, Manitoba Government, Winnipeg, MB, Canada.	<pre>nttp://webz.gov.mb.ca/laws/regs/current/_pdf-regs.pnp?reg=31/2011</pre>
	The Fires Prevention and Emergency Response Act (C.C.S.M. c. F80)	http://web2.gov.mb.ca/laws/statutes/ccsm/f080e.php
	Regulation 155/2011, Manitoba Government, Winnipeg, MB.	
	Canada.	

No construction site safety requirements described
here.
2010 NBC adopted with the 2011 Manitoba
Amenuments, no amenuments are made to Part 8

Manitoba WSH Act and Regulations,		
Manitoba The Workplace Safety and Health Act C.C.S.M. c. W210, In force on 1 April 2014, Province of Manitoba, Canada.	http://web2.gov.mb.ca/laws/statutes/ccsm/ pdf.php?cap=w210	
Manitoba Workplace Safety and Health Regulation, The Workplace	http://web2.gov.mb.ca/laws/regs/current/217.06.pdf	
Safety and Health Act C.C.S.M. c. W210, M.R. 217/2006, In force on		
1 April 2014, Province of Manitoba, Canada.		
Manitoba Workplace Safety and Health Act and Regulation 2014,	http://safemanitoba.com/sites/default/files/files/2014%20WHS%20WorkPlaceSafety%20Act%20and%20Regs_web.pdf	
Province of Manitoba, Canada. (Office Consolidated)		
Other useful links	http://www.firecomm.gov.mb.ca/codes.html	
Winnipeg, MB		·
City of Winnipeg By-law No. 4555/87, The Winnipeg Building by-	http://www.winnipeg.ca/clkdmis/DocExt/ViewDoc.asp?DocumentTypeId=1&DocId=1265	No construction site safety requirements described
Law, Enacted 1987, with Amendments to March 21, 2012,		here.
Winnipeg, MB, Canada.		
City of Winnipeg By-law NO. 4304/86, Residential Buildings Fire	http://www.winnipeg.ca/clkdmis/DocExt/ViewDoc.asp?DocumentTypeId=1&DocId=488	No construction site safety requirements described
Safety, Enacted April 30, 1986, with Amendments to March 23,		here.
2011, Winnipeg, MB, Canada.		
City of Winnipeg By-Law no. 150/2004, The Fire Prevention By-Law,	http://www.winnipeg.ca/clkdmis/DocExt/ViewDoc.asp?DocumentTypeId=1&DocId=1710	No construction site safety requirements described
Passed on October 27, 2004, with Amendments up to July 16, 2014,		here.
Winnipeg, MB, Canada.		
List of by-laws	http://www.winnipeg.ca/clkdmis/DocExt/BL Default.asp?DocumentTypeId=1	•
New Brunswick		
New Brunswick Regulation 82-20, 1982 (Consolidated to December	http://laws.gnb.ca/en/showfulldoc/cr/82-20//20140905?command=search&caller= SI&fragment=	2010 NBC adopted, with the exception of Parts 2
1, 2011). Province of New Brunswick. Canada.	national%20building%20code&search_type=	and 7 of Division B of Volume 2
	all&day=5&month=9&year=2014&search_domain=cr&length=10&offset=2#idhit1	
New Brunswick Regulation 82-20, 1982 (Consolidated to December	http://laws.gnb.ca/en/showfulldoc/cr/82-20//20140905?command=search&caller= SI&fragment=	2010 NFC is adopted without modification
1, 2011), Province of New Brunswick, Canada.	national%20building%20code&search_type=	·
	all&day=5&month=9&year=2014&search_domain=cr&length=10&offset=2#idhit1	
New Brunswick Chapter W-14 Workplace Health, Safety and	http://laws.gnb.ca/en/ShowPdf/cs/W-14.pdf	
Compensation Commission Act, assented to December 16, 1994,		
Province of New Brunswick, Canada.		
New Brunswick Chapter O-0.2 Occupational Health and Safety Act,	http://laws.gnb.ca/en/ShowPdf/cs/O-0.2.pdf	
Assented to August 05, 1983, Province of New Brunswick, Canada.		
New Brunswick Regulation 84-26, Administration, Occupational	http://laws.gnb.ca/en/ShowPdf/cr/84-26.pdf	
Health and Safety Act (O.C. 84-111), Province of New Brunswick,		
 Canada.		
New Brunswick Regulation 91-191, General Regulation,	http://laws.gnb.ca/en/ShowPdf/cr/91-191.pdf	
Occupational health and Safety Act (O.C. 91-1035), Filed December		
03, 1991, Province of New Brunswick, Canada.		
 List of OHS links	http://www.worksafenb.ca/acts-and-regulations	
New Brunswick Building Code Act, BILL 75	<u>http://www.gnb.ca/legis/bill/FILE/56/3/Bill-75-e.htm</u>	2010 NBC is adopted
Other useful links	http://www.worksafenb.ca/acts-and-regulations	
Newfoundland and Labrador		
Newfoundland and Labrador regulation 2012, regulation 45/12, Fire	http://www.assembly.nl.ca/legislation/sr/annualregs/2012/nr120045.htm	2010 NBC, except part 9 where relative to one and
Protection Services Regulations, Part I Adoption of Codes, Dated		2 family dwellings within Group C
April 30, 2012, St John's, Newfoundland and Labrador, Canada		

.pdf	
	No construction site safety requirements described here.
	No construction site safety requirements described here.
	No construction site safety requirements described here.

Newfoundland and Labrador regulation 2012, regulation 45/12, Fire	http://www.assembly.nl.ca/legislation/sr/annualregs/2012/nr120045.htm
Protection Services Regulations, Part I Adoption of Codes, Dated	
 April 30, 2012, St John's, Newfoundland and Labrador, Canada.	
Newfoundland and Labrador Regulation 5/12, Occupational Health	http://www.assembly.nl.ca/legislation/sr/regulations/rc120005.htm
and Safety Regulations, 2012, Dated 17, 2012, St John's,	
Newfoundland and Labrador, Canada.	
Northwest Territories	
NWT Fire Prevention Act and Regulations. Amended by Northwest	http://www.justice.gov.nt.ca
Territories Statues S.N.W.T. 1995. c.11: and Nunavut Statues: S.Nu.	
2006 c.8 in force lune 15 2006 Government of Nunavut Igaluit	
NU. Canada.	
Report on the Draft Northwest Territories Occupational Health &	http://www.wscc.pt.ca/YourWSCC/WhoWeAre/Documents/OHS%20Regs%20Digests%20Vol%203%20NWT.pdf
Safety Regulations, Volume 3 Northwest Territories, Final Revisions	
to the proposed Occupational Health and Safety Regulations	
January 2012 Worker' Safety & Compensation Commission	
Northwest Territories Canada	
2011 Good Building Practice for Northern Facilities Undated March	http://www.pws.gov.pt.ca/pdf/GBP/GBP%202011.pdf
5 2012 Government of the Northwest Territories Public Works and	
Services Canada	
Yellowknife, NT	
City of Vellevylyrife Consolidation of Duilding Du low No. 4400	http://www.vollowinife.co/Accete/City/Clerks/Pullows/Concelidated/Pullows/ConcelidatedPuildingPu
Adapted Japuary 28, 2008, Vallowknife, NT, Capada	http://www.yellowkhile.cd/Assets/City+Cierks/By-laws/Consolidated+By-laws/ConsolidatedBuildingBy-
List of by Lows	IdWN0.4409Januaryz73i2c2014.put
	nttp://www.yellowknile.ca/City Hall/By-law S/Nullibered By-laws List.ntml
Nova Scotia	
Nova Scotia Building Code Regulations 2013, Part 3, Province of	<u>http://novascotia.ca/lae/buildingcode/docs/140107</u>
Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.	<u>http://novascotia.ca/lae/buildingcode/docs/140107</u> <u>FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf</u>
Nova Scotia Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia. Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.	<u>http://novascotia.ca/lae/buildingcode/docs/140107</u> <u>FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf</u> <u>http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm</u>
Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia. Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.	<u>http://novascotia.ca/lae/buildingcode/docs/140107</u> <u>FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf</u> <u>http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm</u>
Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia. Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.	<u>http://novascotia.ca/lae/buildingcode/docs/140107</u> <u>FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf</u> <u>http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm</u>
Nova Scotia Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia. Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.	<u>http://novascotia.ca/lae/buildingcode/docs/140107</u> <u>FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf</u> <u>http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm</u>
Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm
Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996,	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm
Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm
Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.         Other useful links	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm
Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.         Other useful links         Halifax, NS	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm
Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.         Other useful links         Halifax, NS         City of Halifax By-law B-201, Building, Passed April 14, 1998, Halifax,	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm
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<ul> <li>Nova Scotia</li> <li>Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.</li> <li>Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.</li> <li>Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.</li> <li>Other useful links</li> <li>Halifax, NS</li> <li>City of Halifax By-law B-201, Building, Passed April 14, 1998, Halifax, NS, Canada.</li> <li>Halifax Regional Municipality By-Law Number F-100, Respecting Fire Prevention, Passed on December 17, 1996, with amendments to September 23, 2003, Halifax, NS, Canada.</li> <li>List of bylaws</li> </ul>	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://halifax.ca/legislation/bylaws/hrm/documents/By-LawB-201.pdf         http://halifax.ca/legislation/bylaws/hrm/blf100.pdf         http://halifax.ca/legislation/bylaws/hrm/
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Nova Scotia         Nova Scotia Building Code Regulations 2013, Part 3, Province of         Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under         Section 82 of the Occupational Health and Safety Act S.N.S. 1996,         c.7, Effective June 12, 2013, Province of Nova Scotia.         Other useful links         Halifax, NS         City of Halifax By-law B-201, Building, Passed April 14, 1998, Halifax,         NS, Canada.         Halifax Regional Municipality By-Law Number F-100, Respecting Fire         Prevention, Passed on December 17, 1996, with amendments to         September 23, 2003, Halifax, NS, Canada.         List of bylaws         Nunavut         Nunavut Building Code Act, 2012, S.Nu. 2012, c.15, Current to May         7, 2014, Iqaluit, NU, Canada.         2005 Good Building Practices Guideline	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://halifax.ca/legislation/bylaws/hrm/documents/By-LawB-201.pdf         http://halifax.ca/legislation/bylaws/hrm/blf100.pdf         http://halifax.ca/legislation/bylaws/hrm/         http://halifax.ca/legislation/bylaws/hrm/         http://www.canlii.org/en/nu/laws/stat/snu-2012-c-15/latest/snu-2012-c-15.html         http://cgs.gov.nu.ca/PDF/Good%20Building%20Practices%20Guideline.pdf
<ul> <li>Nova Scotia</li> <li>Nova Scotia Building Code Regulations 2013, Part 3, Province of Nova Scotia.</li> <li>Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.</li> <li>Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.</li> <li>Other useful links</li> <li>Halifax, NS</li> <li>City of Halifax By-law B-201, Building, Passed April 14, 1998, Halifax, NS, Canada.</li> <li>Halifax Regional Municipality By-Law Number F-100, Respecting Fire Prevention, Passed on December 17, 1996, with amendments to September 23, 2003, Halifax, NS, Canada.</li> <li>List of bylaws</li> <li>Nunavut</li> <li>Nunavut Building Code Act, 2012, S.Nu. 2012, c.15, Current to May 7, 2014, Iqaluit, NU, Canada.</li> <li>2005 Good Building Practices Guideline</li> </ul>	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://halifax.ca/legislation/bylaws/hrm/documents/By-LawB-201.pdf         http://halifax.ca/legislation/bylaws/hrm/blf100.pdf         http://halifax.ca/legislation/bylaws/hrm/         http://halifax.ca/legislation/bylaws/hrm/2         http://halifax.ca/legislation/bylaws/hrm/2         http://cgs.gov.nu.ca/PDF/Good%20Building%20Practices%20Guideline.pdf
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Nova Scotia         Nova Scotia         Nova Scotia.         Nova Scotia Fire Safety Regulations 2013, Province of Nova Scotia.         Nova Scotia Workplace Health and Safety Regulations made under Section 82 of the Occupational Health and Safety Act S.N.S. 1996, c.7, Effective June 12, 2013, Province of Nova Scotia.         Other useful links         Halifax, NS         City of Halifax By-law B-201, Building, Passed April 14, 1998, Halifax, NS, Canada.         Halifax Regional Municipality By-Law Number F-100, Respecting Fire Prevention, Passed on December 17, 1996, with amendments to September 23, 2003, Halifax, NS, Canada.         List of bylaws         Nunavut         Nunavut Building Code Act, 2012, S.Nu. 2012, c.15, Current to May 7, 2014, Iqaluit, NU, Canada.         2005 Good Building Practices Guideline	http://novascotia.ca/lae/buildingcode/docs/140107         FinalUsersversionNOVASCOTIABUILDINGCODEREGULATIONSDecember312013MASTER.pdf         http://www.novascotia.ca/just/regulations/regs/fsfiresf.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://www.novascotia.ca/just/regulations/regs/ohsworkplace.htm         http://halifax.ca/legislation/bylaws/hrm/documents/By-LawB-201.pdf         http://halifax.ca/legislation/bylaws/hrm/blf100.pdf         http://halifax.ca/legislation/bylaws/hrm/         http://halifax.ca/legislation/bylaws/hrm/         http://cgs.gov.nu.ca/PDF/Good%20Building%20Practices%20Guideline.pdf
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2010 NFC adopted.
Website was not available.
Covers permit issues for unsafe construction site.
No amendments listed for NBC Division B, Part 8
2010 NFC adopted province wide and modified as
listed in 2013 Nova Scotia Fire Safety Regulations,
without modification

The NFC is adopted. No modifications or amendments are made to Part 5.

Current version of the NBC adopted.

No construction site safety requirements described here.

No construction site safety requirements described here.

	City of Iqaluit, By-Law No.620, Iqaluit Building By-Law, Passed on November 8, 2005, Iqaluit, NU, Canada.	http://www.city.iqaluit.nu.ca/i18n/english/files/by-law%20620.pdf	Covers permit issues for unsafe construction site.
	List of by-laws	http://www.city.iqaluit.nu.ca/i18n/english/bylaw.html	
	Ontario		
2012 OBC	Ontario Building Code 2012, Ministry of Municipal Affairs and Housing Building and Development Branch, Ontario, Canada.	http://www.mah.gov.on.ca/Page7393.aspx	Does not include construction site or course of construction safety/fire safety requirements.
	Ontario Regulation 213/07, 2007, Fire Protection and Prevention Act, Province of Ontario, Canada.	http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_070213_e.htm	2007 OFC, Part 8 Demolition covers requirements for this items, but is outside of the scope of construction and renovation sites; In addition, there are requirements related to repairs and renovations (e.g. 2.6.1.10.(1) and 2.6.1.11)
	Occupational health and Safety Act, Ontario Regulation 213/91, Construction Projects, Consolidated from April 8, 2013, Province of Ontario, Canada.	http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_910213_e.htm	
	A Safer Ontario, The State of Public Safety Report 2006, 2006, Ontario Technical Standards and Safety Authority (TSSA).	http://www.tssa.org/corplibrary/ArticleFile.asp?Instance=136&ID=C265E4B926974AE8A975C412F46668E8	
	Ottawa, ON		
	City of Ottawa By-Law No. 2005-208, Property Maintenance By-Law, Enacted May 11, 2005, Ottawa, ON, Canada.	http://ottawa.ca/en/residents/laws-licenses-and-permits/laws/property-maintenance-law-no-2005-208	
	City of Ottawa BY-LAW NO. 2013-416, A by-law of the City of Ottawa to provide for standards under which properties are maintained, Enacted December 11, 2013, City Council Authority CPSC Report 26, Item 6, Ottawa, ON, Canada.	http://documents.ottawa.ca/sites/documents.ottawa.ca/files/documents/bylaw_2013_416_en.pdf	Applicable to residential properties.
	List of bylaws	http://ottawa.ca/en/residents/laws-licenses-and-permits/laws/laws-z	
	Toronto, ON,		
	Toronto Municipal Code Chapter 363, Building Construction and Demolition, Enacted September 9, 2011, Toronto, ON, Canada.	http://www.toronto.ca/legdocs/municode/1184_363.pdf	Applicable to residential sites, where a residential site is "a construction or demolition site for a building that is used only for residential purposes and that is not more than three storeys in building height and not more than one level below grade".
	Toronto Municipal Code Chapter 629, Building Construction and Demolition, Enacted September 9, 2011, Toronto, ON, Canada.	http://www.toronto.ca/legdocs/municode/1184_629.pdf	
	List of by-laws	http://www.toronto.ca/legdocs/bylaws/lawmcode.htm	
	Prince Edward island		
	Prince Edward Island Provincial Building Code Act, Chapter P-24, Legislative Counsel Office, Province of Prince Edward Island, Canada.	http://www.gov.pe.ca/law/statutes/pdf/p-24.pdf	Current version of the NBC adopted.
	Prince Edward Island Chapter 0-1.01 Occupational Health and Safety Act, Legislative Counsel Office, Province of Prince Edward Island, Canada.	http://www.gov.pe.ca/law/statutes/pdf/o-01_01.pdf	
	Prince Edward Island Chapter 0-1 Occupational Health and Safety Act, General Regulations, Legislative Counsel Office, Province of Prince Edward Island, Canada.	http://www.gov.pe.ca/law/regulations/pdf/O&1-01G.pdf	
	List of useful links	http://www.wcb.pe.ca/workplace/ohsactandregulations	
	Charlottetown, PI		
	Charlottetown Area Municipalities Building Code Bylaw,	http://www.city.charlottetown.pe.ca/pdfs/bylaws/Building_Code_Bylaw.pdf	Adopts the 2010 NBC with amendments. No

Applicable to residential sites, where a residential
site is "a construction or demolition site for a
building that is used only for residential purposes
and that is not more than three storeys in building
height and not more than one level below grade".

Current version of the NBC adopted.
Adopts the 2010 NBC with amendments. No modifications are made to Part 8.

	Charlottetown Area Municipalities Fire Prevention Bylaw, Amended/Approved February 13, 2012, Charlottetown, PI, Canada.	http://www.city.charlottetown.pe.ca/pdfs/bylaws/Fire-Prevention-Bylaw-amended-Feb-13-12.pdf	Adopts the 2010 NFC and NFPA 1 Uniform Fire Code (NFPA 31 Standard for the Installation of Oil- Burning Equipment, NFPA 70 National Electrical Code and NFPA 5000 Building Construction and Safety Code).
	Charlottetown Area Municipalities Fire Protection and Emergency Services Bylaw, Amended/Approved March 09, 2009, Charlottetown, PI, Canada.	http://www.city.charlottetown.pe.ca/pdfs/bylaws/Fire_Protection_and_Emergency_Services_Bylaw.pdf	No construction site safety requirements described here.
	List of by-laws	http://www.city.charlottetown.pe.ca/bylaws.php	
	Quebec		
2014 QCC	Quebec Construction Code (Updated 1 August 2014), Chapter I, Building, and National Building Code of Canada, 2005, Province of Quebec, Canada.	http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=3&file=/B 1 1/B1 1R2 A.HTM	Construction site is within the chapter definition of "designated location" in Chapter VIII Petroleum Equipment Installation, Division I Interpretation, 8.01. This has requirements associated with petroleum.
2014 QSC	Quebec Safety Code, Chapter VIII - Building, and National Fire Code of Canada, 2010 Amendment, Province of Quebec, Canada.		2010 National Fire Code with Amendments as listed in Chapter VIII Building, Division A, Section 370
	Quebec Act Respecting Occupational Health and Safety (Updated to August 2014) Chapter S-2.1, Province of Quebec, Canada.	http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=2&file=/S_2_1/S2_1_A.html	
	Quebec Safety Code for the Construction Industry, Chapter S-2.1, r.4), Province of Quebec, Canada.	http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=3&file=/S 2 1/S2 1R4 A.HTM	
	Building Code – 1985 Regulation, Chapter S-2.1, r.0.1), Province of Quebec, Canada.	http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=3&file=/S_2_1/S2_1R0_1_A.HTM	
	Useful links	https://www.rbq.gouv.qc.ca/en/laws-regulations-and-codes/ construction-code-and-safety-code.html	General outline of documents with links in-page.
	Montreal, QC		
	List of by-laws	http://ville.montreal.gc.ca/portal/page? pageid=3620,4034177& dad=portal& schema=PORTAL	
	Saskatchewan		
	Saskatchewan Uniform Building and Accessibility Standards Act, Chapter U-1.2 of the Statutes of Saskatchewan, 1983-84, including Amendments to 2013 c.27, Province of Saskatchewan, Canada.	http://gr.gov.sk.ca/Announcements/NBC-SK-Amendments	2010 NBC adopted.
	Saskatchewan Fire Prevention Act, 1992, chapter F-15.001 of the Statutes of Saskatchewan, 1992, including Amendments to 2014 c.19, Province of Saskatchewan, Canada.	http://gr.gov.sk.ca/Training-Workshops/NFC-SK-Amendments	2010 NFC adopted.
	Occupational Health and Safety Regulations, 1996, Chapter O-1.1 Reg 1, Effective from December 4, 1996, including Amendments up to and including Saskatchewan Regulations 5/2014, Province of Saskatchewan, Canada.	http://www.qp.gov.sk.ca/documents/English/Regulations/Regulations/O1-1R1.pdf	
	Other useful links	http://gr.gov.sk.ca/Codes-and-Standards	

Adopts the 2010 NFC and NFPA 1 Uniform Fire
Code (NFPA 31 Standard for the Installation of Oil-
Burning Equipment, NFPA 70 National Electrical
Code and NFPA 5000 Building Construction and
Safety Code).
No construction site safety requirements described
here.

Yukon		
Yukon Building Standards Act, Chapter 19, Revised Statutes of the	http://www.gov.yk.ca/legislation/acts/bust.pdf	2010 NBC adopted.
Yukon 2002, Whitehorse, YT.		
Yukon Occupational Health Regulations, Yukon Territory, Canada.	https://www.wcb.yk.ca/getattachment/ec42dd92-6df3-4885-a685-	
	6c8e7b67f3e7/Occupational%20Health%20Regulations.aspx	
Other useful Information	http://www.community.gov.yk.ca/pdf/2010_national_construction_codes_letter.pdf	2010 NFC adopted.