ALBERTA FIRE CODE PRE-INSPECTION CHECKLIST

Lethbridge County Emergency Services – FIRE SERVICES BRANCH



Version – August 2021





Lethbridge County Annual Fire Inspection Checklist

This checklist provides building and business owners with the some of the requirements that shall be met for a successful fire inspection. This checklist provides the owner or authorized agent an idea of requirements that must be met.

Although this checklist provides good information for owners and occupants of buildings, this document **DOES NOT** cover all code requirements. Therefore, this document should be only be utilized as a guide to help create a fire safe facility

ADDRESS	✓
Building Address and Unit Numbers shall be clearly displayed in a location visible from the road.	
FIRE DEPARTMENT ACCESS	✓
Street, yard and roadway access shall be accessible at all times for fire department vehicles. NFC (AE) 2.5.1.5	
Any building with fire protection equipment, elevator control or door access shall provide shall install a key lockbox containing all required keys to be used by the fire department. NFC (AE) 2.5.1.3	
FIRE HYDRANTS	/
Private hydrants shall be inspected, tested and maintained in accordance with NFPA 25-2017. NFC (AE) 6.4.1.1	
No person shall do anything to obstruct access to a fire hydrant or to interfere with operation of a hydrant. Water Services Bylaw 762-R-07-19	
FIRE DEPARTMENT CONNECTION	/
Fire department connections for standpipes or automatic sprinkler systems shall be kept clear of obstructions. There should be at least two metres of clearance around the connections, and protective caps must be in place. NFC (AE) 6.4.1.1	
STORAGE OF COMBUSTIBLE &	✓
FLAMMALE LIQUIDS	
Flammable or Combustible liquids shall be prevented from flowing outside a spill area and reaching waterways or drains NFC (AE) 4.1.6.1	
Flammable or Combustible liquids shall be stored in approved containers. NFC (AE) 4.2.3.1	

Flammable or Combustible liquids that are above	
the allowable quantities are stored in an approved	
room or cabinet.	
NFC (AE) 4.2.4.2	
FIRE ALARM	/
Fire alarm systems shall be maintained in operable	
condition at all times.	
NFC (AE) 6.3.1.1	
If a fire alarm system in a building is not	
monitored, then a permanent sign, with directions	
to contact 9-1-1 in case of an emergency is	
required above each manual pull station.	
NFC (AE) 2.8.2.7	
Fire alarm systems shall be maintained, inspected	
and tested by a qualified fire alarm company	
annually. Records of the inspection and testing	
shall be maintained on the premises for review by	
a Fire Safety Codes Officer.	
NFC (AE) 6.3.1.2	
CAN/ULC – S536-13	
Buildings with fire alarm systems shall provide a	
zone map located near the fire alarm panel that	
indicates the corresponding zones.	
SPRINKLER SYSTEMS	. /
Sprinkler systems shall be maintained, inspected	
and tested annually by a qualified person. Records	
of the inspection and testing shall be maintained	
on the premises for review by a Fire Safety Codes	
Officer	
NFC (AB) 6.4.1.1	
Storage shall not interfere with fire sprinkler head	
discharge; a 450mm (18 inch) clearance is required	
from sprinkler heads to the top of storage.	
NFC (AB) 6.4.1.1 (NFPA 25)	
All valves and components of a fire sprinkler	
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system shall be maintained free of obstructions.	
system shall be maintained free of obstructions. NFC (AB) 6.4.1.1	

FIRE EXTINGUISHERS	/	MEANS OF EGRESS	
Extinguisher shall be selected and installed in		Means of egress shall be in good repair and free of	
accordance with NFPA 10		any obstructions	
NFC (AB) 2.1.5.1(2)		NFC (AB) 2.7.1.6	
All fire extinguishers should be properly mounted		An exit door shall not be bolted, barred or locked	
 Weighing less than 40lbs – maximum 		other than with a device	
height 5 feet.		that complies with the National Building Code (AB).	
 Weighing greater than 40lbs – maximum 		NFC (AB) 2.7.2.1(7)	
height 3.5 feet.		All doors forming part of a means of egress shall be	
Mounted with the bottom of the extinguisher no		tested monthly to ensure they are operable.	
less than 4 inches off the floor.		NFC (AB) 2.7.2.1(1)	
NFPA 10		Exterior passageways and exterior exit stairs	
Fire extinguisher shall be listed, labelled and		serving occupied buildings shall be	
tagged by a qualified person.		maintained free of snow and ice accumulations.	
NFC (AB) 6.1.1.5(3)		NBC (AB) 2.7.1.7(1)	
Existing fire extinguishers shall be serviced and		Means of egress shall be kept clear of combustible	
tagged by a qualified person within the last 12		materials.	
months.		NBC (AB) 2.4.1.1(2)	
NFPA 10		COMMERCIAL COOKING SYSTEMS	
Indoor and outdoor storage areas must have all		Commercial cooking exhaust system shall be	
fire extinguisher accessible with an aisle that is at		professionally cleaned by a certified company	
least one metre wide.		every 6 months, unless other timelines have been	
NFC (AB) 3.2.2.2(2)		provided by the Fire Safety Codes Officer.	
Maximum travel distance to extinguishers shall be		NFC (AB) 2.6.1.9(2) NFPA 96	
determined by the information provided in		Fire Suppression systems shall be inspected,	
appendix A of this document.		serviced and maintained every six months.	
NFPA 10		NFC (AB) 2.6.1.9(2) NFPA 96	
EXIT LIGHTS	/	Instructions for manually operating the fire	
Exit lighting and signs shall be illuminated when		suppression systems shall be prominently posted	
the building is occupied.		in the kitchen.	
NFC (AB) 2.7.3.1(2)		NFC (AB) 2.6.1.9(5)	
Exit lighting should be inspected to ensure that		A "K" Class fire extinguisher shall be mounted on	
they are illuminated upon failure of the primary		the wall in the kitchen and inspected, services and	
power supply.		maintained annually by a qualified person.	
NFC (AB) 6.5.1.8(1) EMERGENCY LIGHTS	. /	NFPA 10 Weekly cleaning	
	✓		
Emergency lighting shall be tested monthly by the		SPECIAL FIRE SUPPRESSION SYSTEM	
owner or occupant to ensure that during a power		Special fire suppression systems shall be tested,	
failure the lighting will function.		inspected and maintained by a qualified person	
NFC (AB) 6.5.1.6(2)(a)		every six months, in conformance with the	
Emergency lighting shall be tested at intervals not		applicable NFPA standard.	
greater than 12 months to ensure it will remain		NFC (AB) 6.6.1.1(1)	
illuminated for the designed duration.			
NFC (AB) 6.5.1.6(2)(b)			

✓

FIRE/SMOKE CONTROL	/	GENERAL STORAGE
Any holes or damage in fire rated construction shall be sealed or repaired to maintain the integrity of the rating. NFC (AB) 2.2.1.2(1)		Access aisles of a least one metre must be maintained to access panels and fire protection equipment. NFC (AB) 3.2.2.2(2)
Closures must be intact and free of damage to maintain an adequate fire rating. NFC (AB) 2.2.2.2(1)		Aisles shall be maintained free of obstructions. NFC (AB) 3.2.2.2(3) Smoking is not permitted in an indoor storage area.
All fire doors must be operable at all times by making the necessary adjustments and repairs to door hardware or accessories to ensure proper closing and latching. Doors with hold-open devices		NFC (AB) 3.2.2.6(1) STORAGE OF COMPRESSED GAS CYLINDERS Compressed gas cylinders shall be firmly secured in
must be functional and able to release automatically. NFC (AB) 2.2.2.4 Fire doors shall not be obstructed, blocked, wedged		an upright position that will not interfere with the operation of the cylinder valve assembly. NFC (AB) 3.1.2.5(2)(b)
open or altered in any way that would prevent the intended operation of the door. NFC (AB) 2.2.2.4(4)		Compressed gas cylinders shall be protected against mechanical and valve damage. NFC (AB) 3.1.2.5 Compressed gas cylinders shall not be stored in:
Fire dampers, smoke dampers, combination smoke/fire dampers and fire stop flaps shall be inspected and tested every 12 months in accordance with NFPA 80. NFC (AB) 2.2.2.4(5)		 Any exit or corridor that provides access to exits. Under any fire escape, outside exit stair or passage ramp.
ELECTRICAL	✓	 Within one metre of any exit. NFC (AB) 3.1.2.5(4)
Electrical installations shall be in good repair and maintained so as to not constitute a fire hazard. If in doubt contact a licensed electrician.		EMERGENCY PROCEDURES & EVACUATION PLAN
NFC (AB) 2.4.7.1(1) Extension cords may not be used as substitutes for permanent wiring. NFC (AB) 2.4.7.1(1) All electrical outlets, switches and junction boxes shall have cover plates. NFC (AB) 2.4.7.1(1)		 Required for: Buildings where large numbers of people congregate. Buildings where people are cared for or detained. Buildings with fire alarms. Buildings with indoor or outdoor storage.
A one metre clearance to combustible materials from electrical panels shall be maintained. NFC (AB) 2.4.1.1		 Areas where flammable or combustible liquids are stored or handled. Areas where hazardous processes or
HOUSEKEEPING	/	operations occur.Buildings where demolition or construction
Combustible materials in and around buildings shall not accumulate in quantities or locations that will constitute an undue fire hazard.		falls under Section 5.6. NFC (AB) 2.8.1.1 Supervisory staff shall be trained in fire and
NFC (AB) 2.4.1.1(1) Rooms containing building services (i.e. furnace, boilers, electrical, etc.) shall not be used for storage.		emergency procedures outlined in the plan. NFC (AB) 2.8.1.2(1)
NFC (AB) 2.4.1.1(2) Materials subject to spontaneous ignition such as oily rags, shall be deposited in a listed and labelled		At least one copy of the plan shall be prominently posted on each floor area. NFC (AB) 2.8.2.7(1)
container or be removed from the premises. NFC (AB) 2.4.1.3 (1)		Storage tanks conform with Appendix B.

APPENDIX A

FIRE EXTINGUISHER SIZE & PLACEMENT

Hazard Occupancies

Light hazard occupancies can include some buildings or rooms occupied as offices, classrooms, churches, assembly halls, guest room areas of hotels or motels, and so forth. This classification anticipates that the majority of content items are either noncombustible or so arranged that a fire is not likely to spread rapidly. Small amounts of Class B flammables used for duplicating machines, art departments, and so forth, are included, provided that they are kept in closed containers and safely stored.

Ordinary hazard occupancies could consist of dining areas, mercantile shops and allied storage, light manufacturing, research operations, auto showrooms, parking garages, workshop or support service areas of light hazard occupancies, and warehouses containing materials placed on wooden pallets, corrugated cartons, shrink wrapped loads or wooden boxes.

Extra hazard occupancies could consist of woodworking; vehicle repair; aircraft and boat servicing; cooking areas; individual product display showrooms; product convention center displays; and storage and manufacturing processes such as painting, dipping, and coating, including flammable liquid handling.

NFPA 10 Requirements

Table 6.2.1.1 Fire Extinguisher Size and Placement for Class A Hazards

Criteria	Light Hazard Occupancy	Ordinary Hazard Occupancy	Extra Hazard Occupancy
Minimum rated single extinguisher	2-A	2-A	4-A
Maximum floor area per unit of A	$3000 \; {\rm ft^2}$	$1500~\mathrm{ft^2}$	$1000 \mathrm{\ ft^2}$
Maximum floor area per extinguisher	$11,250 \text{ ft}^2$	11,250 ft ²	$11,250 \text{ ft}^2$
Maximum travel distance to extinguisher	75 ft	75 ft	75 ft

Table 6.3.1.1 Fire Extinguisher Size and Placement for Class B Hazards

Type of	Basic Minimum Extinguisher	Maximum Travel Distance to Extinguishers	
Hazard	Rating	ft	m
Light	5-B	30	9.14
J	10-B	50	15.25
Ordinary	10-B	30	9.14
,	20-B	50	15.25
Extra	40-B	30	9.14
	80-B	50	15.25

Class C requirements are based on the size and travel distance as required with class A & B

6.5 Installations for Class D Hazards.

 $6.5.1^{\ast}$ Fire extinguishers or extinguishing agents with Class D ratings shall be provided for fires involving combustible metals.

6.5.2 Fire extinguishers or extinguishing agents (media) shall be located not more than 75 ft (22.9 m) of travel distance from the Class D hazard. (*See Section E.6.*)

6.5.3* Portable fire extinguishers or extinguishing agents (media) for Class D hazards shall be provided in those work areas where combustible metal powders, flakes, shavings, chips, or similarly sized products are generated.

6.5.4* Size determination shall be on the basis of the specific combustible metal, its physical particle size, area to be covered, and recommendations by the fire extinguisher manufacturer based on data from control tests.

6.6 Installations for Class K Hazards.

6.6.1* Class K fire extinguishers shall be provided for hazards where there is a potential for fires involving combustible cooking media (vegetable or animal oils and fats).

6.6.2 Maximum travel distance shall not exceed 30 ft (9.1 m) from the hazard to the extinguishers.

6.6.3 All solid fuel cooking appliances (whether or not under a hood) with fire boxes of 5 ft 3 (0.14 m 3) volume or less shall have at least a listed 2-A rated water-type fire extinguisher or a 1.6 gal (6 L) wet chemical fire extinguisher that is listed for Class K fires.

APPENDIX B

STORAGE TANKS

On June 8, 2020, the Safety Codes Council assumed responsibility for services related to storage tank management. These services are administered by the Alberta Safety Codes Authority (ASCA) and include:

- Permitting in areas unaccredited in Part 4 of the National Fire Code 2019 Alberta Edition.
- Inspections of newly permitted flammable and combustible storage tank system installations or alterations in unaccredited areas of the province.
- Routine and follow-up inspections of existing flammable and combustible storage tank systems in unaccredited areas.
- Overseeing spill/incident reporting requirements for tank operators.

Containers not requiring permits or approval must be under 230 Liters and in conformance with the following:

- a) TC SOR/2016-95, "Transportation of Dangerous Goods Regulations (TDGR),"
- b) CSA B376-M, "Portable Containers for Gasoline and Other Petroleum Fuels,"
- c) CSA B306-M, "Portable Fuel Tanks for Marine Use,"
- d) ULC/ORD-C30, "Safety Containers," or
- e) CSA B620, "Highway Tanks and TC Portable Tanks for the Transportation of Dangerous Goods."

Storage tank means a vessel for flammable liquids or combustible liquids having a capacity of more than 230L, and designed to be installed in a fixed location.

http://www.safetycodes.ab.ca/ASCA/StorageTankSystems/Pages/Main.aspx

APPENDIX C

IMPORTANT CONTACTS

Lethbridge County Fire Services Fire Safety Codes Officer 403.328.5525 bfraser@lethcounty.ca

Park Enterprises Ltd.
Building, Electrical, Plumbing, Gas
#10, 491 W.T. Hill Blvd. S., Lethbridge AB
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Lethbridge County Development Permits403.328.5525
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Alberta Safety Codes Authority
Storage Tanks
1.888.413.0099
ascatanks@safetycodes.ab.ca
http://www.safetycodes.ab.ca/ASCA/Pages/ASCA.aspx