

# Municipality of Dysart

Haliburton ON

Haliburton ON K0M 1S0

## Subject Report

### Interior Operations

#### BUILDING CONSTRUCTION

##### 1001 5.3.11

##### **Horizontal Ventilation**

Perform horizontal ventilation on a structure operating as part of a team, given an assignment, personal protective equipment, ventilation tools, equipment, and ladders, so that the ventilation openings are free of obstructions, tools are used as designed,

ladders are correctly placed, ventilation devices are correctly placed, and the structure is cleared of smoke.

**(A) Requisite Knowledge.** The principles, advantages, limitations, and effects of horizontal, mechanical, and hydraulic ventilation; safety considerations when venting a structure; fire behavior in a structure; the products of combustion found in a structure fire; the signs, causes, effects, and prevention of backdrafts; and the relationship of oxygen concentration to life safety and fire growth.

**(B) Requisite Skills.** The ability to transport and operate ventilation tools and equipment and ladders, and to use safe procedures for breaking window and door glass and removing obstructions.

**Certification:** 0.00      **Re Certification:** 0.00

##### 1001 5.3.12

##### **Vertical Ventilation**

Perform vertical ventilation on a structure as part of a team, given an assignment, personal protective equipment, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation

barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished.

**(A) Requisite Knowledge.** The methods of heat transfer; the principles of thermal layering within a structure on fire; the techniques and safety precautions for venting flat roofs, pitched roofs, and basements; basic indicators of potential collapse or roof failure; the effects of construction type and elapsed time under fire conditions on structural integrity; and the advantages and disadvantages of vertical and trench/strip ventilation.

**(B) Requisite Skills.** The ability to transport and operate ventilation tools and equipment; hoist ventilation tools to a roof; cut roofing and flooring materials to vent flat roofs, pitched roofs, and basements; sound a roof for integrity; clear an

opening with hand tools; select, carry, deploy, and secure ground ladders for ventilation activities; deploy roof ladders on pitched roofs while secured to a ground ladder; and carry ventilation-related tools and equipment while ascending and descending ladders.

**Certification:** 0.00      **Re Certification:** 0.00

#### FIRE BEHAVIOR

##### 1001

##### **Fire Behavior**

**Certification:** 0.00      **Re Certification:** 0.00

#### FIRE EXTINGUISHERS

##### 1001 5.3.16

##### **Fire Extinguishers**

Extinguish incipient Class A, Class B, and Class C fires, given a selection of portable fire extinguishers, so that the correct extinguisher is chosen, the fire is completely extinguished, and correct extinguisher-handling techniques are followed.

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**(A) Requisite Knowledge.** The classifications of fire; the types of, rating systems for, and risks associated with each class of fire; and the operating methods of and limitations of portable extinguishers.

**(B) Requisite Skills.** The ability to operate portable fire extinguishers, approach fire with portable fire extinguishers, select an appropriate extinguisher based on the size and type of fire, and safely carry portable fire extinguishers.

**Certification:** 0.00      **Re Certification:** 0.00

### **FORCIBLE ENTRY**

#### **1001 5.3.4      Forcible Entry thru Doors, Windows and Walls**

Force entry into a structure, given personal protective equipment, tools, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.

**(A) Requisite Knowledge.** Basic construction of typical doors, windows, and walls within the department's community or service area; operation of doors, windows, and locks; and the dangers associated with forcing entry through doors, windows, and walls.

**(B) Requisite Skills.** The ability to transport and operate hand and power tools and to force entry through doors, windows, and walls using assorted methods and tools.

**Certification:** 0.00      **Re Certification:** 0.00

### **INCIDENT COMMAND AND FIRE ATTACK**

#### **1021 4.1.1      Organizational Structure of Fire Department**

**Certification:** 0.00      **Re Certification:** 0.00

#### **1021 4.2.1      Assign Tasks or Responsibilities - Emergency**

Assign tasks or responsibilities to unit members, given an assignment at an emergency incidents, so that the instructions are complete, clear and concise, safety considerations are addressed; and the desired outcomes are conveyed.

A) Requisite Knowledge. Verbal communications during emergency situations, techniques used to make assignments under stressful situations and methods of confirming understanding.

B) Requisite Skills. The ability to condense instructions for frequently assigned unit tasks based on training and standard operating procedures.

**Certification:** 0.00      **Re Certification:** 0.00

#### **1021 4.2.2      Assign Tasks or Responsibilities - Non-Emergency**

Assign tasks or responsibilities to unit members, given an assignment under non-emergency conditions, or at a station or other work location, so that the instructions are complete, clear and concise, safety considerations are addressed; and the desired outcomes are conveyed.

A) Requisite Knowledge. Verbal communications under non-emergency situations, techniques used to make assignments under stressful situations and methods of confirming understanding.

B) Requisite Skills. The ability to condense instructions for frequently assigned unit

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tasks based on training and standard operating procedures.

**Certification:** 0.00      **Re Certification:** 0.00

### 1021 4.2.3

#### **Direct Unit During Training**

Direct unit members during a training evolution, give a company training evolution and training policies and procedures, so that the evolution is performed in accordance with safety plans, efficiently and as directed.

A) Requisite Knowledge. Verbal communication techniques to facilitate learning.

B) Requisite Skills. The ability to distribute issue-guided directions to unit members during training evolutions.

**Certification:** 0.00      **Re Certification:** 0.00

## LIVE FIRE EXTERIOR

### 1001 5.3.10

#### **Attack an Interior Structure Fire**

Attack an interior structure fire operating as a member of a team, given an attack line, ladders when needed, personal protective equipment, tools, and an assignment, so that team integrity is maintained, the attack line is deployed for

advancement, ladders are correctly placed when used, access is gained into the fire area, effective water application practices are used, the fire is approached correctly, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, the correct body posture is maintained, hazards are recognized and managed, and the fire is brought under control.

**(A) Requisite Knowledge.** Principles of fire streams; types, design, operation, nozzle pressure effects, and flow capabilities of nozzles; precautions to be followed when advancing hose lines to a fire; observable results that a fire stream has been properly applied; dangerous building conditions created by fire; principles of exposure protection; potential long term consequences of exposure to products of combustion; physical states of matter in which fuels are found; common types of accidents or injuries and their causes; and the application

of each size and type of attack line, the role of the backup team in fire attack situations, attack and control techniques for grade level and above and below grade levels, and exposing hidden fires.

**(B) Requisite Skills.** The ability to prevent water hammers when shutting down nozzles; open, close, and adjust nozzleflow and patterns; apply water using direct, indirect, and combination attacks; advance charged and uncharged 1 1/2 in. (38 mm) diameter or larger hose lines up ladders and up and down interior and exterior stairways; extend hose lines; replace burst hose sections; operate charged hose lines of 1 1/2 in. (38 mm) diameter or larger while secured to a ground ladder; couple and uncouple various hand line connections; carry hose; attack fires at grade level and above and below grade levels; and locate and suppress interior wall and sub floor fires.

**Certification:** 0.00      **Re Certification:** 0.00

### 1001 5.3.19

#### **Ground Cover Fires**

Combat a ground cover fire operating as a member of a team, given protective clothing, SCBA (if needed), hose lines, extinguishers or hand tools, and an assignment, so that threats to property are reported, threats to personal safety are recognized, retreat is quickly accomplished when warranted, and the assignment is completed.

**(A) Requisite Knowledge.** Types of ground cover fires, parts of ground cover fires,

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methods to contain or suppress, and safety principles and practices.

**(B) Requisite Skills.** The ability to determine exposure threats based on fire spread potential, protect exposures, construct a fire line or extinguish with hand tools, maintain integrity of established fire lines, and suppress ground cover fires using water.

**Certification:** 0.00      **Re Certification:** 0.00

### 1001 5.3.7

#### **Vehicle Fire**

Attack a passenger vehicle fire operating as a member of a team, given personal protective equipment, attack line, and hand tools, so that hazards are avoided, leaking flammable liquids are identified and controlled, protection from flash fires is maintained, all vehicle compartments are overhauled, and the fire is extinguished.

**(A) Requisite Knowledge.** Principles of fire streams as they relate to fighting automobile fires; precautions to be followed when advancing hose lines toward an automobile; observable results that a fire stream has been properly applied; identifying alternative fuels and the hazards associated with them; dangerous conditions created during an automobile fire; common types of accidents or injuries related to fighting automobile fires and how to avoid them; how to access locked passenger, trunk, and engine compartments; and methods for overhauling an automobile.

**(B) Requisite Skills.** The ability to identify automobile fuel type; assess and control fuel leaks; open, close, and adjust the flow and pattern on nozzles; apply water for maximum effectiveness while maintaining flash fire protection; advance 1 1/2 in. (38 mm) or larger diameter attack lines; and expose hidden fires by opening all automobile compartments.

**Certification:** 0.00      **Re Certification:** 0.00

### 1001 5.3.8

#### **Attack a fire in stacked/piled materials and Dumpster Fire**

Extinguish fires in exterior Class A materials, given fires in stacked or piled and small unattached structures or storage containers that can be fought from the exterior, attack lines, hand tools and master stream devices, and an assignment, so that exposures are protected, the spread of fire is stopped, collapse hazards are avoided, water application is effective, the fire is extinguished, and signs of the origin area(s) and arson are preserved.

**(A) Requisite Knowledge.** Types of attack lines and water streams appropriate for attacking stacked, piled materials and outdoor fires; dangers — such as collapse — associated with stacked and piled materials; various extinguishing agents and

their effect on different material configurations; tools and methods to use in breaking up various types of materials; the difficulties related to complete extinguishment of stacked and piled materials; water application methods for exposure protection and fire extinguishment; dangers such as exposure to

toxic or hazardous materials associated with storage building and container fires; obvious signs of origin and cause; and techniques for the preservation of fire cause evidence.

**(B) Requisite Skills.** The ability to recognize inherent hazards related to the material's configuration, operate hand lines or master streams, break up material using hand tools and water streams, evaluate for complete extinguishment, operate

hose lines and other water application devices, evaluate and modify water application for maximum penetration, search for and expose hidden fires, assess patterns for origin determination, and evaluate for complete extinguishment.

**Certification:** 0.00      **Re Certification:** 0.00

## LOSS CONTROL

### 1001 5.3.13

#### **Overhaul a Fire Scene/Locate and Extinguish a Hidden Fire**

Overhaul a fire scene, given personal protective equipment, attack line, hand tools, a

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flashlight, and an assignment, so that structural integrity is not compromised, all hidden fires are discovered, fire cause evidence is preserved, and the fire is extinguished.

**(A) Requisite Knowledge.** Types of fire attack lines and water application devices most effective for overhaul, water application methods for extinguishment that limit water damage, types of tools and methods used to expose hidden fire, dangers

associated with overhaul, obvious signs of area of origin or signs of arson, and reasons for protection of fire scene.

**(B) Requisite Skills.** The ability to deploy and operate an attack line; remove flooring, ceiling, and wall components to expose void spaces without compromising structural integrity; apply water for maximum effectiveness; expose and extinguish

hidden fires in walls, ceilings, and sub-floor spaces; recognize and preserve obvious signs of area of origin and arson; and evaluate for complete extinguishment.

**Certification:** 0.00      **Re Certification:** 0.00

### 1001 5.3.14

#### **Conserve Property**

Conserve property as a member of a team, given salvage tools and equipment and an assignment, so that the building and its contents are protected from further damage.

**(A) Requisite Knowledge.** The purpose of property conservation and its value to the public, methods used to protect property, types of and uses for salvage covers, operations at properties protected with automatic sprinklers, how to stop the flow of water from an automatic sprinkler head, identification of the main control valve on an automatic sprinkler system, forcible entry issues related to salvage, and procedures for protecting possible areas of origin and potential evidence.

**(B) Requisite Skills.** The ability to cluster furniture; deploy covering materials; roll and fold salvage covers for reuse; construct water chutes and catch-alls; remove water; cover building openings, including doors, windows, floor openings, and roof openings; separate, remove, and relocate charred material

to a safe location while protecting the area of origin for cause determination; stop the flow of water from a sprinkler with sprinkler wedges or stoppers; and operate a main control valve on an automatic sprinkler system.

**Certification:** 0.00      **Re Certification:** 0.00

## ORGANIZATION, SAFETY & COMMUNICATIONS

### 1001 5.2.4

#### **Activate an Emergency Call for Assistance**

Activate an emergency call for assistance, given vision obscured conditions, PPE, and department SOPs, so that the fire fighter can be located and rescued.

**(A) Requisite Knowledge.** Personnel accountability systems, emergency communication procedures, and emergency evacuation methods.

**(B) Requisite Skills.** The ability to initiate an emergency call for assistance in accordance with the AHJ's procedures, the ability to use other methods of emergency calls for assistance.

**Certification:** 0.00      **Re Certification:** 0.00

## PRE-INCIDENT PLANNING, SIZE-UP AND ACTION PLANNING

### 1021 4.5.2

#### **Identify Construction Alarm Detection and Supression Features**

**Certification:** 0.00      **Re Certification:** 0.00

### 1021 4.5.3

#### **Secure an Incident Scene**

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**Certification:** 0.00      **Re Certification:** 0.00

### **1021 4.6      Emergency Service Delivery**

**Certification:** 0.00      **Re Certification:** 0.00

#### **1021 4.6.1      Develop an Action Plan**

**Certification:** 0.00      **Re Certification:** 0.00

#### **1021 4.6.2      Implement an Action Plan**

**Certification:** 0.00      **Re Certification:** 0.00

## **RIT TRAINING**

### **1001 5.3.9      Conduct a Search in Structure**

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that

ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety — including respiratory protection — is not compromised.

**(A) Requisite Knowledge.** Use of forcible entry tools during rescue operations, ladder operations for rescue, psychological effects of operating in obscured conditions and ways to manage them, methods to determine if an area is tenable, primary and secondary search techniques, team members' roles and goals, methods to use and indicators of finding victims, victim removal methods (including various carries), and considerations related to respiratory protection.

**(B)\* Requisite Skills.** The ability to use SCBA to exit through restricted passages, set up and use different types of ladders for various types of rescue operations, rescue a fire fighter with functioning respiratory protection, rescue a fire fighter whose respiratory protection is not functioning, rescue a person who has no respiratory protection, and assess areas to determine tenability.

**Certification:** 0.00      **Re Certification:** 0.00

## **SCBA**

### **1001 5.3.1      SCBA Donning and Doffing, Emergency Operations**

Use self-contained breathing apparatus (SCBA) during emergency operations, given SCBA and other personal protective equipment, so that the SCBA is correctly donned, the SCBA is correctly worn, controlled breathing techniques are used, emergency procedures are enacted if the SCBA fails, all low-air warnings are recognized, respiratory protection is not intentionally compromised, and hazardous areas are exited prior to air depletion.

**(A) Requisite Knowledge.** Conditions that require respiratory protection, uses and limitations of SCBA, components of SCBA, donning procedures, breathing techniques, indications for and emergency procedures used with SCBA, and physical requirements of the SCBA wearer.

**(B) Requisite Skills.** The ability to control breathing, replace SCBA air cylinders, use SCBA to exit through restricted passages, initiate and complete emergency procedures in the event of SCBA failure or air depletion, and complete donning procedures.

**Certification:** 0.00      **Re Certification:** 0.00

### **1001 5.3.5      Exit a Hazardous Environment**

Exit a hazardous area as a team, given vision-obscured conditions, so that a safe haven is found before exhausting the air supply, others are not endangered, and the team integrity

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## Subject Report Continued

is maintained.

**(A) Requisite Knowledge.** Personnel accountability systems, communication procedures, emergency evacuation methods, what constitutes a safe haven, elements that create or indicate a hazard, and emergency procedures for loss of air supply.

**(B) Requisite Skills.** The ability to operate as a team member in vision-obscured conditions, locate and follow a guideline, conserve air supply, and evaluate areas for hazards and identify a safe haven.

**Certification:** 0.00      **Re Certification:** 0.00

### 1001 5.3.9

#### **Conduct a Search in a Structure - SCBA Usage**

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that

ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety — including respiratory protection — is not compromised.

**(A) Requisite Knowledge.** Use of forcible entry tools during rescue operations, ladder operations for rescue, psychological effects of operating in obscured conditions and ways to manage them, methods to determine if an area is tenable, primary and secondary search techniques, team members' roles and goals, methods to use and indicators of finding victims, victim removal methods (including various carries), and considerations related to respiratory protection.

**(B)\* Requisite Skills.** The ability to use SCBA to exit through restricted passages, set up and use different types of ladders for various types of rescue operations, rescue a fire fighter with functioning respiratory protection, rescue a fire fighter whose respiratory protection is not functioning, rescue a person who has no respiratory protection, and assess areas to determine tenability.

**Certification:** 0.00      **Re Certification:** 0.00

## SEARCH & RESCUE

### 1001 5.3.9

#### **Conduct a Search in a Structure**

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that

ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety — including respiratory protection — is not compromised.

**(A) Requisite Knowledge.** Use of forcible entry tools during rescue operations, ladder operations for rescue, psychological effects of operating in obscured conditions and ways to manage them, methods to determine if an area is tenable, primary and secondary search techniques, team members' roles and goals, methods to use and indicators of finding victims, victim removal methods (including various carries), and considerations related to respiratory protection.

**(B)\* Requisite Skills.** The ability to use SCBA to exit through restricted passages, set up and use different types of ladders for various types of rescue operations, rescue a fire fighter with functioning respiratory protection, rescue a fire fighter whose respiratory protection is not functioning, rescue a person who has no respiratory protection, and assess areas to determine tenability.

**Certification:** 0.00      **Re Certification:** 0.00

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## Subject Report Continued

### VENTILATION

#### 1001 5.3.12

#### **Vertical Ventilation**

Perform vertical ventilation on a structure as part of a team, given an assignment, personal protective equipment, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation

barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished.

**(A) Requisite Knowledge.** The methods of heat transfer; the principles of thermal layering within a structure on fire; the techniques and safety precautions for venting flat roofs, pitched roofs, and basements; basic indicators of potential collapse or roof failure; the effects of construction type and elapsed time under fire conditions on structural integrity; and the advantages and disadvantages of vertical and trench/strip ventilation.

**(B) Requisite Skills.** The ability to transport and operate ventilation tools and equipment; hoist ventilation tools to a roof; cut roofing and flooring materials to vent flat roofs, pitched roofs, and basements; sound a roof for integrity; clear an

opening with hand tools; select, carry, deploy, and secure ground ladders for ventilation activities; deploy roof ladders on pitched roofs while secured to a ground ladder; and carry ventilation-related tools and equipment while ascending and descending ladders.

**Certification:**

0.00

**Re Certification:**

0.00