

LOCALLY DEVELOPED COURSE OUTLINE

Fire Rescue Services (2019)15-3

Submitted By:

The Chinook's Edge School Division

Submitted On:

Sep. 30, 2019

Course Basic Information

<u>Outline Number</u>	<u>Hours</u>	<u>Start Date</u>	<u>End Date</u>	<u>Development Type</u>	<u>Proposal Type</u>	<u>Grades</u>
15-3	62.50	09/01/2019	08/31/2023	Acquired	Authorization	G10

Course Description

Fire Rescue Services 15 provides students with an opportunity to develop an awareness of and experience the role of a firefighter. This course allows students to investigate potential careers in fire rescue services and qualifications for entry. Fire Rescue Services 15 also encourages students to develop general employability skills that will serve them well in any chosen profession. This course may help to prepare students interested in pursuing a fire rescue services career.

The facility should provide the physical resources to accommodate all the goals of the curriculum. These would include:

- Access to fire training facility
- Access to a facility with workout equipment

Specialized equipment is required for the delivery of this course, including but not limited to:

Personal Protection Equipment

- Safety glasses
- Fire resistant coveralls
- Bunker gear
- Breathing apparatus
- Ventilation equipment

Fire Suppression Equipment

- Portable fire extinguishers
- Hose, valves and nozzle components

Simulation Props

Rescue and Extraction Equipment

- Ladders

- Ropes

- Forcible entry tools There will be an optional field trip to a fire training facility run by Edmonton Fire Rescue to participate in a simulated fire situation, which may present some safety risks. A professional instructor with experience in training of fire cadets will be in charge of the activities at the fire training facility and will ensure that the simulations and activities are conducted in a safe manner. A teacher will also be on-hand to support the professional instructor.

Course Prerequisites

No prerequisite for Fire Rescue Services 15

Sequence Introduction (formerly: Philosophy)

Fire Rescue Services 15 provides students with the opportunity to develop many of the competencies and qualities outlined in the Ministerial Order on Student Learning (#001/2013). In particular, this locally developed course fosters communication, innovation, problem-solving and critical thinking through the examination of fire rescue techniques and equipment. Fire Rescue Services 15 encourages students to take risks in exploring how to learn through experience and collaborate with others to achieve success. This course is intended to build students' confidence and growth and to support their long-term goals and career aspirations.

Student Need (formerly: Rationale)

Fire Rescue Services 15 provides students with an opportunity to learn about and experience the role of a firefighter. The emphasis of Fire Rescue Services 15 is on the development of fire rescue service skills. Through the outcomes of Fire Rescue Services 15, students are introduced to the dynamics of teamwork and collaboration. As well, students in this course are encouraged to explore their own identity and develop community-mindedness. This locally developed course also provides opportunities for students to investigate potential careers related to fire rescue services and develop general employability skills.

Scope and Sequence (formerly: Learner Outcomes)

Essential Understanding 1: Investigating key competencies required of fire rescue personnel develops our personal skill set. (Guiding Questions 1, 2 and 3)

Essential Understanding 2: Developing movement competence, motivation, and confidence through purposeful engagement in physical activity fosters the development of physically literate citizens across a lifespan. (Guiding Question 4)

Essential Understanding 3: Investigating careers and examining employability skills helps to identify the steps necessary to achieve career goals. (Guiding Question 5)

Guiding Questions (formerly: General Outcomes)

- 1 How can examining fire-related variables aid in understanding fire behaviour and combustion traits?**
- 2 How can examining fire rescue equipment help us to recognize some of the considerations in fire rescue situations?**
- 3 What are some important hazards to consider in emergency fire situations?**
- 4 How can fitness training improve performance in fire rescue situations?**
- 5 How can we make meaningful connections between our skill set and career opportunities?**

Learning Outcomes (formerly: Specific Outcomes)

1 How can examining fire-related variables aid in understanding fire behaviour and combustion traits?	15-3
1.1 Students describe heat sources and heat transfer.	X
1.2 Students describe the principles of fire behaviour.	X
1.3 Students explain thermal layering of gases and identify products of combustion.	X
1.4 Students describe extinguishment theory.	X
1.5 Students describe classification of fires and identify appropriate extinguishment methods.	X

2 How can examining fire rescue equipment help us to recognize some of the considerations in fire rescue situations?	15-3
2.1 Students describe the portable extinguisher rating system, model selection and use.	X
2.2 Students model the use of a breathing apparatus, safety glasses and bunker gear.	X
2.3 Students compare rope materials, rope construction and rope uses.	X
2.4 Students compare line safety and utility rope.	X
2.5 Students tie knots for a variety of applications.	X
2.6 Students describe care, maintenance and proper storage of ropes.	X
2.7 Students apply rescue and extrication tools and equipment and solve problems.	X
2.8 Students describe water supply main valves and relay pumping.	X
2.9 Students describe and model the use of forcible entry tools.	X

2.10 Students explain ladder types, perform ladder raises and model ladder safety.	X
2.11 Students examine an aerial apparatus and describe the general procedures for its use.	X
2.12 Students describe hose construction and hose couplings.	X
2.13 Students explain causes and prevention of hose damage.	X

3 What are some important hazards to consider in emergency fire situations?	15-3
3.1 Students identify types of building construction and describe potential associated hazards.	X
3.2 Students describe firefighter hazards related to building construction.	X
3.3 Students analyze ventilation considerations.	X

4 How can fitness training improve performance in fire rescue situations?	15-3
4.1 Students practice a variety of strength and endurance activities.	X
4.2 Students perform a variety of fire rescue service simulation activities.	X

5 How can we make meaningful connections between our skill set and career opportunities?	15-3
5.1 Students describe fire rescue service career-specific skills that transfer into general employability skills.	X
5.2 Students examine specific fire rescue service careers and the qualifications necessary for them.	X
5.3 Students explain next steps in their own personal career pathway.	X
5.4 Students summarize evidence of skills for personal portfolio.	X

Facilities or Equipment

Facility

The facility should provide the physical resources to accommodate all the goals of the curriculum. These would include:

- Access to fire training facility
- Access to a facility with workout equipment

Facilities:

Equipment

Specialized equipment is required for the delivery of this course, including but not limited to:

Personal Protection Equipment

- Safety glasses
- Fire resistant coveralls
- Bunker gear
- Breathing apparatus
- Ventilation equipment

Fire Suppression Equipment

- Portable fire extinguishers
- Hose, valves and nozzle components

Simulation Props

Rescue and Extraction Equipment

- Ladders
- Ropes
- Forcible entry tools

Learning and Teaching Resources

No required resources are specified.

Sensitive or Controversial Content

No sensitive or controversial content.

Issue Management Strategy

Health and Safety

There will be an optional field trip to a fire training facility run by Edmonton Fire Rescue to participate in a simulated fire situation, which may present some safety risks.

Risk Management Strategy

Statement of Overlap with Existing Programs

Course Name: Fire Department Course 25

Overlap Identified: Learning Outcomes 1.1 through 1.5 deal with fire behavior, fire extinguishers use and apparatus, which does overlap with learning outcomes in Fire Rescue Services 15.

Reasoning why LDC is necessary: The Fire Department Course 25 is an intensive course being offered through the Lakeland College Emergency Training Centre and is intended to provide students with modules to complete in order to become a member of a volunteer rural fire department. Students in Fire Department Course 25 are also preparing for international certification for the NFPA 472 Dangerous Goods Awareness Level. This is beyond the intended scope of Fire Rescue Services 15 which provides students with an opportunity to get an overview of the role of the firefighter to determine if it may be a career which students would like to pursue.

Course Name: CALM

Overlap Identified: Learning Outcome 5.4 of Fire Rescue Services 15 does overlap with Outcome C2 of CALM.

Reasoning why LDC is necessary: Students in CALM are looking in general at skills; however, Outcome 5.4 in Fire Rescue Services 15 is focused on the evidence of skills that were developed through the Fire Rescue Services 15 course.

Course Name: Physical Education 10-20-30

Overlap Identified: Learning Outcome 4.1 of Fire Rescue Services 15 does overlap with A10-13/A20-13/A30-13 in the Physical Education program of studies.

Reasoning why LDC is necessary: The strength and endurance activities which are undertaken in Fire Rescue Services 15 are focused on training which would aid in fire rescue situations.

Student Assessment

No identified student assessments.

Course Approval Implementation and Evaluation

