



Locally Developed Courses

Fire Rescue Services

For the 2023-2024 School Year

Introduction to the Fire Rescue Services Course Sequence

Subject: Career and Technology Studies - Discipline: Career Transitions

Firefighting is a challenging and rewarding career that provides individuals with the opportunity to provide important services to their communities. In Fire Rescue Services 15, students investigate the equipment, practices and specialized skills used in fire rescue services. Throughout this course, students explore the dynamics of teamwork and collaboration. Students in Fire Rescue Services 15 are encouraged to take risks in exploring how to learn through experience, communicate effectively and collaborate with others to achieve success. Fire Rescue Services 15 is intended to enhance students' skill sets and support their long-term goals and career aspirations.

Student Need

Fire Rescue Services 15 provides students with an opportunity to learn about and experience the role of a firefighter. Throughout this course, students have opportunities to develop a variety of competencies. In particular, the examination of fire-related variables and fire rescue equipment and techniques fosters communication, critical thinking and problem solving. As well, engaging in fitness training and fire rescue simulation activities supports students' personal growth and well-being. Fire Rescue Services 15 provides students with the opportunity to investigate potential careers related to fire rescue services.

Courses in the Fire Rescue Services Course Sequence

Fire Rescue Services 15 (LDC1004)

Fire Rescue Services 15 provides students with an opportunity to learn about and experience the role of a firefighter. In this course, students investigate the equipment, practices and specialized skills used in fire rescue services. Throughout Fire Rescue Services 15 students explore the dynamics of teamwork and collaboration. This course provides students with the opportunity to investigate potential careers related to fire rescue services.

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

Equipment

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

- Personal protection equipment (PPE)
- 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

Health and Safety

There is a degree of risk associated with all physical activity. The following strategies mitigate the risks in the training environment:

- health and safety policies, procedures and processes are in place.

Prerequisites: None

Versions Available: (Each version must be locally approved by Board Motion prior to offering to students.)

Credit Level	First School Year	Last School Year
3	2023-2024	2026-2027

Curriculum Outline

Curriculum Elements		Fire Rescue Services 15-3
1	Topic Investigating key competencies required of fire rescue personnel helps to develop a personal skill set.	✓
1.1	General Outcome How can investigating fire-related variables aid in understanding fire behaviour and combustion traits?	✓
1.1.1	Specific Outcome describe heat sources and heat transfer.	✓
1.1.2	Specific Outcome describe the principles of fire behaviour.	✓
1.1.3	Specific Outcome make connections between thermal layering of gases and the products of combustion.	✓
1.1.4	Specific Outcome describe extinguishment theory.	✓
1.1.5	Specific Outcome describe fire classifications.	✓
1.1.6	Specific Outcome relate extinguishment methods to fire classifications.	✓
1.2	General Outcome How can an understanding of fire rescue equipment and its applications support effective performance during fire rescue situations?	✓
1.2.1	Specific Outcome describe the portable extinguisher rating system, model selection and use.	✓
1.2.2	Specific Outcome model the use of breathing apparatus, safety glasses and bunker gear.	✓
1.2.3	Specific Outcome compare rope materials, construction and uses.	✓
1.2.4	Specific Outcome compare life safety rope and utility rope.	✓

Curriculum Elements		Fire Rescue Services 15-3
1.2.5	Specific Outcome tie knots for a variety of applications.	✓
1.2.6	Specific Outcome apply rescue and extrication tools and equipment to solve problems.	✓
1.2.7	Specific Outcome describe water supply main valves and relay pumping.	✓
1.2.8	Specific Outcome describe and model the use of forcible entry tools.	✓
1.2.9	Specific Outcome explain ladder types used in fire rescue situations.	✓
1.2.10	Specific Outcome perform ladder raises and model ladder safety.	✓
1.2.11	Specific Outcome describe the general procedures for the use of an aerial apparatus.	✓
1.2.12	Specific Outcome describe hose construction and hose couplings.	✓
1.2.13	Specific Outcome explain causes and prevention of hose damage in fire rescue situations.	✓
1.3	General Outcome Why is it important to understand the hazards that may be present in fire rescue situations?	✓
1.3.1	Specific Outcome describe potential hazards associated with various types of building construction.	✓
1.3.2	Specific Outcome describe firefighter hazards related to building construction.	✓
1.3.3	Specific Outcome analyze ventilation considerations.	✓
1.4	General Outcome Why is it essential to properly care for and maintain equipment used in fire rescue situations?	✓

Curriculum Elements		Fire Rescue Services 15-3
1.4.1	Specific Outcome demonstrate care, maintenance and proper storage of ropes.	✓
1.4.2	Specific Outcome demonstrate care, maintenance and proper storage of bunker gear.	✓
1.4.3	Specific Outcome describe care, maintenance and proper storage of hoses.	✓
2	Topic Engaging in purposeful physical activity fosters the development of movement competence and confidence.	✓
2.1	General Outcome In what ways can engaging in various training and simulation activities support personal growth and well-being?	✓
2.1.1	Specific Outcome practice a variety of strength and endurance activities.	✓
2.1.2	Specific Outcome perform a variety of fire rescue simulation activities.	✓
3	Topic Exploring workplace skills and career opportunities promotes personal growth and lifelong learning.	✓
3.1	General Outcome In what ways can the study of fire rescue services foster skill development and career readiness?	✓
3.1.1	Specific Outcome examine careers in fire rescue services and the qualifications necessary for them.	✓
3.1.2	Specific Outcome describe transferable skills acquired through the study of fire rescue services.	✓
3.1.3	Specific Outcome summarize evidence of skills for a personal career portfolio.	✓