



FIRE-130 – Fire Driver Pumper Operator

Technology

Effective Term & Year: Fall 2022

Course Outline Review Date: 2027-03-01

Program Area: Fire Services

Description:

This is a one-week course. 40 hours of instruction will be delivered face-to-face or combined with online activities, quizzes, and other assessments. 8 hours of certification evaluation will be performed through face-to-face sessions scheduled for a 1-day period at the end of the course. The course prepares the student for the Pumping Apparatus Driver/Operator certification process.

Program Information:

This course is designed for students currently in the fire service seeking to further their career.

Delivery Methods: On-campus (Face-to-Face), Hybrid – On-campus (Face-to-Face) and Online

Credit Type: College of the Rockies Credits

Credits: 2

Instructional Activity and Hours:

Activity	Hours
Classroom, Directed Studies or Online Instruction	16
Seminar/Tutorials	
Laboratory/Studio	24
Practicum/Field Experience	

Co-op/Work Experience

Other

Total**40**

Course Requisites:

None

Flexible Assessment: Yes

In some cases students may be able to apply for recognition of prior learning outside the classroom. This flexible assessment process provides equivalent course credit. It is a rigorous process that may include external evaluation, worksite assessment, demonstration, standardized test, self-assessment, interview, products/portfolio, and challenge exam, or other measures as appropriate. Tuition fees apply. Contact an education advisor for more information.

Course Transfer Credit:

For information about receiving transfer credit for courses taken at either British Columbia or Alberta institutions, please see <https://www.bctransferguide.ca/> or <https://transferalberta.alberta.ca> . For more transfer credit information, please visit <https://www.cotr.bc.ca/Transfer>

All requests for course transfer credit from institutions in British Columbia or elsewhere should go to the College of the Rockies Enrolment Services office.

Textbook Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

Jones & Bartlett 3rd Fire Apparatus Dive/Operator , Third Edition

Please see the instructor's syllabus or check COTR's online text calculator <https://textbook.cotr.bc.ca/> for a complete list of the currently required textbooks.

Learning Outcomes:

Upon the successful completion of this course, students will have met the sections required for a Pumping Apparatus Driver/Operator in the NFPA 1002, 2014 and 2017 editions, *Standard for Fire Apparatus Driver/Operator Professional Qualifications*. Students who successfully complete the certification process will be certified as a Pumping Apparatus Driver/Operator. Specific learning outcomes include the ability to:

perform visual and operational checks;

- operate a fire apparatus;
- operate all fixed systems and equipment on the vehicle;
- initiate the response to a reported emergency;
- establish and operate in work areas at emergency and nonemergency scenes;
- connect a fire department pumper to a water supply as a member of a team;
- produce effective hand or master streams; and
- supply water to fire sprinkler and standpipe systems.

Course Topics:

- Types of Apparatus Equipped with a Pump
- Apparatus Inspection and Maintenance
- Apparatus Safety and Operating Emergency Vehicles
- Positioning Apparatus
- Principles of Water
- Hose Nozzles and Flow Rates
- Theoretical Pressure Calculations
- Fireground Hydraulic Calculations
- Fire Pump Theory
- Operating Fire Pumps
- Static Water Supply Sources
- Relay Pumping Operations
- Water Shuttle Operations
- Foam Equipment and Systems
- Apparatus Testing
- Fire Service Knowledge and Skills for Driver/Operators

Evaluation and Assessments

Assessment Type: On-Campus (face-to-face) and Online, or Hybrid

Assessment Type	% of Total Grade
The theory portion of the course is assessed with a Pro Board-approved written test. Students must achieve a minimum mark of 70%.	50%

The practical assignment portion of the course is assessed on a pass/fail basis. Students must earn a passing grade on each of the skills tests as required by the 50% Pro Board.

Total	100%
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Grade Scheme

COM	NCG
Completed to the defined standard – 70% and higher	No credit granted – less than 70%

Pass requirements: A passing average (70% or higher) in the theory components and satisfactory completion of practice criteria.

Evaluation Notes Comments:

A passing grade is required in both theory and practical skills components in order to earn credit for the course.

Exam Attendance:

Students must attend all scheduled exams at the appointed time and place. Instructors may approve an alternate exam to accommodate an illness or personal crisis. Department heads will consider other written requests. Any student who misses a scheduled exam without prior approval will receive a “0” on the exam.

Academic Policies:

College of the Rockies policies related to courses can be found at <https://cotr.bc.ca/about-us/college-policies/> and include the following:

- Policy 2.4.3 Students with Documented Disabilities
- Policy 2.4.4 Student Conduct (plagiarism, other cheating, behavioral misconduct)
- Policy 2.5.8 Academic Performance
- Policy 2.5.3 Grade Appeal
- Policy 2.4.9 Student Concerns Re Faculty

Course Changes:

The College of the Rockies updates course outlines regularly to meet changing educational, employment and marketing needs. The instructor will notify students in writing of any updates to this outline during the semester. The instructor reserves the right to revise, add or delete material while meeting the learning outcomes of this course outline.

