

3050 PUMP OPERATIONS

Objective

To provide the theory and develop the skills in pump or pumper operations as they apply to the fire service as per *NFPA 1002 Standard on Fire Apparatus Driver Operator Professional Qualifications*

Prerequisites

- Must have the equivalent of grade 9 math (a knowledge of squares and square roots)
- Applicants should have 1024 Firefighter Level I Certification.

Target Group

Any Fire Department personnel involved in pump or pumper operations.

Methodology

Classroom and practical training.

Content

- The Driver Operator
- Apparatus Inspection and Maintenance
- Positioning Apparatus
- Fire Hose Nozzles and Flow Rates
- Fireground Hydraulic Calculations
- Operating Fire Pumps
- Relay Pumping Operations
- Foam Equipment and Systems
- Types of Fire Apparatus
- Operating Emergency Vehicles
- What is Water?
- Theoretical Pressure Calculations
- Fire Pump Theory
- Static Water Supply
- Water Shuttle Operations
- Apparatus Testing

Certification

Certification of attainment will be issued upon successful completion of the course.

Enrollment

Minimum 10 students
Maximum 20 students

Duration

4 days (2 weekends)

Location

Nova Scotia Firefighters School or other suitable location

Note

Students should bring PPE and suitable work gear (some PPE available at the school). Approved safety glasses, and hearing protection that can be worn with a fire helmet is also recommended. Writing implements, note pads, and calculator are also required. The recommended manual for this course is Pumping Apparatus Drivers Operator Handbook 2nd Ed.