

**FE113**  
**Fire Apparatus – Driving & Maintenance**  
**2 Credits**

Instructor: TBA

Phone:

Original Developer: Randy Segboer

Current Developer: Mariette Sargeant

Reviewer: Alan Jones

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## **FE113 Version: 4**



### **Fire Apparatus – Driving & Maintenance**

#### **Calendar Description**

This course is designed to provide an opportunity for students with knowledge in firefighting to gain confidence in operating fire department pumpers. Drill exercises are designed to impart practical experience in effectively deploying pumping equipment under conditions often encountered on the fire ground.

#### **Rationale**

Pump operation on the fire ground is of vital importance in firefighting and the student who gets a good knowledge of it will become a more effective and knowledgeable member of the firefighting team. This course should enable the student to acquire this knowledge and practice, from a scientific perspective and not tradition, which greatly reduces the possibility of effort on the fire ground.

#### **Prerequisites**

Valid driver's license and air brake endorsement

#### **Co-Requisites**

FE105

#### **Course Learning Outcomes**

Upon successful completion of this course, students will be able to

1. identify the basic principles of fire service hydraulics.
2. describe the operating principles of various fire pumps.
3. transfer power from the fire department vehicle engine to the pump.
4. perform various driving skills on a fire department vehicle.
5. explain water movement, fire ground working pressures, and how to develop effective fire streams.
6. effectively deploy pumping equipment under conditions often encountered on the fire ground.

## Resource Materials

### *Required Text(s):*

Emergency Training Centre course material.

IFSTA. (2015). *Pumping and aerial apparatus DRIVER/OPERATOR handbook* (3<sup>rd</sup> ed.).

Stillwater, OK: Fire Protection Publications Oklahoma State University.

## Conduct of Course

This course is presented through the use of the required text, lecture, video, field demonstrations, and D2L.

## Evaluation Procedures

There is a 50 item multiple-choice exam based on the objectives with the grades determined using the grade scale under the Grades section of this course outline.

Quizzes and tests on D2L are used as assignments of the program by the faculty. The tests are used for ensuring that students are succeeding in their learning, and underachievement may lead to academic probation.

## Grade Equivalents and Course Pass Requirements

The final mark is given as a letter grade.

Letter	F	B-	B	B+	A-	A	A+
Percent Range	0-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	2.70	3.00	3.30	3.70	4.00	4.00

## Attendance

Regular attendance is essential for success in any course. Absence for any reason does not relieve a student of the responsibility of completing course work and assignments to the satisfaction of the instructor. Poor attendance may result in the termination of a student from a course.

## Course Units/Topics

- Fire Apparatus-Preventative Maintenance
- Driving-Operating Fire Apparatus
- Apparatus Equipped with an Attack or Fire Pump



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