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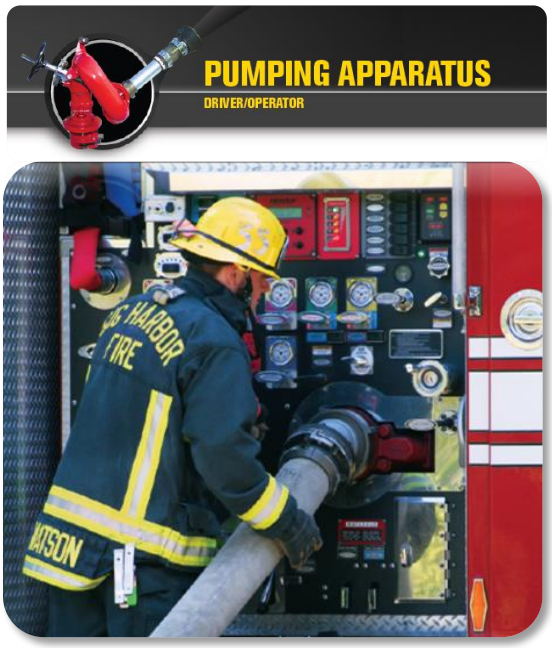


**Course Delivery Formats:**

1. Online Interactive Course
2. Online Streamed Video
3. DVD

**Additional Materials:** Instructor's PowerPoint, Question Files

This newly updated pumping apparatus series provides clear and detailed step-by-step instruction on the use and effective operation of pumping apparatus.

Demonstrations include safe vehicle operations such as driving exercises, inspection and maintenance of apparatus. Programs also detail proper positioning of apparatus for effective operations, how to operate fire pumps from different water sources, and how to perform shuttle and relay pumping operations.

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The series teaches to the most current **NFPA 1002: *Standard for Fire Apparatus Driver/Operator Professional Qualifications*** and is a recommended teaching companion to IFSTA/FPP *Pumping Apparatus Driver/Operator Handbook*.

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An instructor's PowerPoint presentation can be purchased to use with this series. The instructor's PowerPoint presentation contains an editable version that the instructor can customize with material such as department specific SOPs. This provides the instructor a professional looking presentation incorporating screen captures and bullet points from the ATS series.

If PowerPoint software is not available to run the presentations, the provided PowerPoint viewer can be installed to play PowerPoint Slide Show versions of the presentations. These are not editable.

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PowerPoint titles match the course titles listed below.
Slide count for each PowerPoint is listed next to the video run time for the title.

**1. Safe Operation of Emergency Vehicles** **Video Run Time - 19:30** #PPT Slides – 69

This program presents safety factors for starting and driving fire apparatus. The focus is on pumping apparatus, but the safe driving information applies to all types of emergency vehicles. Topics covered include safe driving techniques for emergency vehicles, how to correctly start and operate gas and diesel-powered pumping apparatus and a demonstration of practical driving exercises in NFPA 1002-09.

***Training Objectives:***

1. Present driver/operator responsibilities
2. Present common causes of crashes involving emergency vehicles
3. Show proper start-up procedures
4. Demonstrate how to operate diesel-powered apparatus
5. Demonstrate the performance criteria for the practical driving exercises in NFPA 1002

**2. Positioning Apparatus** **Video Run Time - 20:57** #PPT Slides – 84

Driver/operators and engineers need to know how to correctly position the apparatus at the emergency scene. This program presents how to determine the best position for an attack pumper, how to position water supply pumpers, correct pumper position for special situations, a demonstration of staging procedures and the tactical and safety considerations for operations on limited-access highways.

***Training Objectives:***

1. Present the factors involved in the positioning of attack pumpers
2. Demonstrate correct positioning for water supply pumpers
3. Show correct positioning for special operations
4. Demonstrate staging procedures
5. Present the tactical and safety considerations of operations on highways

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**3. Operating Fire Pumps** **Video Run Time - 22:14** #PPT Slides – 120

The driver/operator's ability to operate a fire pump that provides the necessary water supply while maintaining the mechanical soundness of the pump is critical to the success of the operation. This program presents how to operate the pump using water on the apparatus, how to operate the pump using an external pressurized water supply and how to operate the pump using water from a draft source.

***Training Objectives:***

1. Show how to pump water from the apparatus tank using power take-off and front-mount pumps
2. Demonstrate pumping water from the tank on an apparatus with a mid-ship or rear-mount pump
3. Show how to operate a pump panel to flow water
4. Show how to transition to an external water supply
5. Show cavitation and how to prevent it
6. Demonstrate how to pump water from a hydrant
7. Demonstrate drafting from a static source

**4. Apparatus Inspection & Maintenance** **Video Run Time - 19:52** #PPT Slides – 94

This program presents the tasks involved in routine pumping apparatus inspection and maintenance requirements of the driver/operator. It demonstrates a systematic apparatus inspection procedure (the "walk-around" inspection), routine maintenance tasks, plus inspection and preventive maintenance of the fire pump.

***Training Objectives:***

1. Present a systematic approach to apparatus maintenance and inspections
2. Demonstrate a walk-around check of an apparatus starting on the driver's side
3. Show the walk-around check from the right side
4. Show how to inspect the cab
5. Show how to check the engine compartment
6. Present the tasks for routine maintenance of the apparatus
7. Show procedures for inspection and preventive maintenance of the fire pump

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**5. Water Shuttle & Relay Pumping** **Video Run Time - 21:57** #PPT Slides – 90

Water shuttle operations and relay pumping are two methods for providing water to emergency scenes in remote areas. This program presents basic information about each type of operation, including a description of a typical water shuttle and the equipment involved, a basic procedure for setting up a water shuttle, a description of a basic relay pumping operation, and the process for setting up a typical water relay.

***Training Objectives:***

1. Describe a typical water shuttle and show the equipment involved
2. Show factors in selecting fill and dump sites
3. Show considerations in selecting travel routes
4. Demonstrate operations at fill sites in a water shuttle
5. Show operations at a dump site in a water shuttle
6. Describe the basics in water relay pumping
7. Present a step-by-step process for setting up a relay pumping operation

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*Innovative Training Systems for Emergency Responders*

# NFPA Standards Matrix






***NFPA 1002***

*Standard for Fire Apparatus Driver/Operator Professional Qualifications*

| VOL# | Pumping Apparatus Title | NFPA 1002 |
|---|---|---|
| **001** | **Safe Operation of Emergency Vehicles** | 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6 |
| **002** | **Positioning Apparatus** | 5.2.1, 5.2.4, 6.2.1 |
| **003** | **Operating Fire Pumps** | 4.3.7, 5.2.1 |
| **004** | **Apparatus Inspection & Maintenance** | 4.2.1, 4.2.2, 5.1.1 |
| **005** | **Water Shuttle & Relay Pumping** | 5.2.1, 5.2.2, 10.2.1, 10.2.2, 10.2.3 |