

# Program of Instruction

## Course Syllabus

**Course Title:** Rural Engine and Tender Operations

**Course Duration:** 1-16 hours

**Program:** Firefighting

**Course Prerequisites:** None

**Course Description:** The goal of this course is to familiarize fire department personnel with rural water operations. Students will familiarize themselves with various alternative water sources and the equipment that is necessary to make use of those sources. Students will also learn how to make more efficient use of their department's equipment. At the end of the course, the students will establish and test a multi-department rural water supply operation.

**Course Requirements and/or Recommendations:** These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion. (Post-Course Work)

### Summary of Directions

Pre-Course Work: None

Course Work: Attend and Participate

Post-Course Work: None

### **Course Policies:**

**Safety Policy:** Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

**Academic Integrity Policy:** IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

## **Course Content:**

### **Module: 1**

**Title:** Rural Water Supply Sources

**Terminal Learning Objective:** At the end of this module, the student will describe the various types of fire apparatus utilized in rural water supply operations, their design features, equipment commonly carried, and considerations when selecting tender apparatus for service.

### **Module: 2**

**Title:** Rural Water Supply Apparatus

**Terminal Learning Objective:** At the end of this module, the student will describe the various types of fire apparatus utilized in rural water supply operations, their design features, equipment commonly carried, and considerations when selecting tender apparatus for service.

### **Module: 3**

**Title:** Rural Engine and Tender Operations Practical Exercises

**Terminal Learning Objective:** At the end of this module, the student will demonstrate the steps of establishing a rural water supply and establish and test a rural water supply operation.

## **Reference List:**

Firefighter's Handbook of Firefighting and Emergency Response, 3<sup>rd</sup> Edition.  
Delmar Thomson Learning, 2008

ISO Water-Supply Gradings for Public Protection Classification, Fire Suppression Rating Schedule, <http://www.isomitigation.com/ppc/2000/ppc2001.html>, 2000

Pumping Apparatus Driver/Operator Handbook, 2<sup>nd</sup> Edition,  
IFSTA, Fire Protection Publications, 2006

## Course Schedule

### DAY ONE

| <u>Event</u> |                                   | <u>Duration</u> |
|--------------|-----------------------------------|-----------------|
| Module 1     | Rural Water Sources               | 1 hour          |
| Module 2     | Rural Water Supply Apparatus      | 1 hour          |
| Module 3     | Rural Engine and Tender Exercises | 2 hours         |
| Drill 3.1    | Set up Dump Site                  | 2 hours         |
| Drill 3.2    | Set up Fill Site                  | 2 hours         |

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### DAY TWO

| <u>Event</u> |                                     | <u>Duration</u> |
|--------------|-------------------------------------|-----------------|
| Drill 3.3    | Multi Department Shuttle Practice   | 4 hours         |
| Drill 3.4    | Multi Dept. Shuttle Operation (ISO) | 4 hours         |