

Lassen Community College Course Outline

FS-90 Portable Pumps and Water Use (S-211)

1.0 Units

I. Catalog Description

This course is designed to meet training needs of a Firefighter Type 1 or Incident Commander Type 5. Course content will provide the knowledge and skills needed to design, set up, operate, troubleshoot, and shut down portable water delivery systems.

Prerequisite(s): None

Corequisite(s): None

Recommended Preparation: Successful completion of ENGL105 or equivalent multiple measures placement.

Does not Transfer

18 Hours Lecture, 4 hours lab, 36 Hours Outside Class: 58 Total Student Learning Hours

Scheduled: Spring

II. Coding Information

Repeatability: Not Repeatable

Grading Option: graded

Credit Type: Credit - Degree Applicable

TOP Code: 213300

III. Course Objectives

A. Course Student Learning Outcomes

Upon successful completion of this course, the student will:

1. Demonstrate knowledge and skills to design, set up, operate, troubleshoot, and shut down portable water delivery systems.
2. Identify types, parts, and functions of portable water pumps and accessories.

B. Course Objectives

Upon successful completion of this course, the student will:

1. Define the ultimate goal of a portable water delivery system.
2. Identify types, parts, and functions of portable water pumps and accessories.
3. Address the various responsibilities associated with operating a portable water delivery system.
4. Address the importance of hydraulics and describe the appropriate steps to design and troubleshoot a portable water delivery system.
5. Demonstrate proper techniques for set up, operation, troubleshooting, and shut down of the system

IV. Course Content

- A. Portable Water Delivery Systems
- B. Equipment
- C. Responsibilities
- D. System Design and Hydraulics
- E. Field Exercise

V. Assignments

A. Appropriate Readings (Assigned text and handout material):

Portable Pumps and Water Use S-211 NFES 3028 (2012)

B. Writing Assignments:

Notes

C. Expected Outside Assignments (required for all degree-applicable courses; need two hours outside for every one hour in class, none required for all lab classes):

Review class work and practice skills.

D. Specific Assignments that Demonstrate Critical Thinking (required for all degree applicable courses): Given different scenarios, determine whether parallel hose lay, series pumping, or parallel pumping would be the best option.

VI. Methods of Evaluation

Traditional Evaluation

Field exercise exam and classroom final exam.

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

Traditional Classroom Delivery Correspondence Delivery

Hybrid Delivery

Online Delivery

Traditional Classroom Delivery

Lecture, discussion, audio/visual aids, demonstration, group exercises, guest speakers, lab, individualized programs and other as needed.

VIII. Representative Texts and Supplies

Student Workbook Portable Pumps and Water Use S-211 NFES 3028,2012

Student informational work sheets

Materials provided by instructor

IX. Discipline/s Assignment

Fire Technology

X. Course Status

Current Status: Active

Original Approval Date: 01/15/2013

Board Approval Date: 02/12/2013

Chancellor's Office Approval Date: 02/20/2013

Revised By: Dan Weaver

Latest Curriculum/Academic Standards Committee Revision Date: 10/18/2022