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 assessment placement.

Does not Transfer
16 Hours Lecture, 4 hours lab

Scheduled: Spring 2013

II. Coding Information
Repeatability: Not Repeatable
Grading Option: Graded or Pass/No Pass
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:
   Demonstrate knowledge and skills to design, set up, operate, troubleshoot, and shut down portable water delivery systems.

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
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
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
☐ Interactive Television Delivery
☐ Online Delivery

VIII. Representative Texts and Supplies
Portable Pumps and Water Use S-211 NFES 3028

IX. Discipline/s Assignment
Fire Technology

X. Course Status
Current Status: Pending
Original Approval Date: 01/15/2013
Revised By: Dave Trussell
Latest Curriculum/Academic Standards Committee Revision Date: 12/03/2013
Board Approval Date: 02/12/2013
Chancellor’s Office Approval Date: