COURSE OUTLINE
Swift Water Rescue Technician Level 1

Course Description
FS 152. Swift Water Rescue Technician Level 1. 2 hours credit. Prerequisites: FS 100 and FS 149 both with a C or better. This course will enable the student to recognize conditions requiring a swift water rescue, properly perform a risk assessment, implement a rescue plan, perform a swift water rescue using established methods, and perform an after-action report or debriefing, using National Fire Protection Association’s 1006 and 1670 standards pertaining to Swift Water Rescue Technician 1.

Required Materials
For complete material(s) information, refer to https://bookstore.butlercc.edu

Butler-Assessed Outcomes
The intention is for the student to be able to
1. Recognize conditions requiring swift water rescue.
2. Perform a risk assessment leading to a rescue plan.
3. Perform a swift water rescue.

Learning Outcomes
1. Identify procedures for initiating the emergency response system where swift water rescue is required.
2. Identify procedures for carrying out site control and scene management.
3. Recognize hazards associated with swift water rescue and the procedures to mitigate these hazards.
4. Identify and utilize personal protective equipment (PPE) assigned for use at a swift water rescue incident.
5. Distinguish between a rescue and a recovery.
6. Perform both a risk assessment as well as resource assessment.
7. Perform a swift water rescue safely and effectively.
8. Maintain and properly care for PPE and other equipment.
9. Perform a debriefing or after-action report.

Learning PACT Skills that will be developed and documented in this course
Through involvement in this course, the student will develop ability in the following PACT skill area(s):
Analytical Thinking Skills
• Problem solving - Using analytical processes, the student will gather data during an initial scene size-up and determine the proper and safest course of actions to take.
Technology Skills
- Discipline-specific technology - Through demonstration of various swift water rescue skills and techniques, the student will gain proficiency in the use of discipline-specific technology.

Major Summative Assessment Task(s)
These Butler-assessed Outcome(s) and Learning PACT skill(s) will be demonstrated by
1. Performing a series of cognitive and psychomotor assessments to demonstrate proficiency in the swift water rescue techniques detailed in the National Fire Protection Associations 1006 and 1670 standards.

Skills or Competencies
These actions are essential to achieve the course outcomes:
1. Recognize the need for a swift water search and rescue
2. Identify resources necessary to conduct safe and effective water operations
3. Demonstrate site control and site management measures
4. Identify general hazards associated with water operations and the procedures necessary to mitigate these hazards
5. Perform risk/benefit analysis
6. Perform a swift water rescue safely and effectively
7. Perform a debriefing

Learning Units
I. Procedures for sizing up existing and potential conditions
   A. Scope, magnitude, and nature of the incident
   B. Location, number, and condition of victims
   C. Risk/benefit analysis
   D. Scene access
   E. Environmental factors
   F. Available and necessary resources

II. Personal safety at water operations
   A. Personal flotation devices
   B. Thermal protection
   C. Appropriate head protection
   D. Acceptable cutting devices
   E. Contamination protection

III. Hydrology/dynamics of moving water
   A. Terminology
   B. How current affects rescues
   C. How water moves under different conditions

IV. PPE
   A. Proper PPE for water conditions
   B. Equipment maintenance and care
C. Servicing equipment

V. Ropes and knots
   A. Knots
   B. Anchors
   C. Mechanical advantage (simple and compound)
   D. Rope/Equipment care and maintenance

VI. Swim techniques
    A. Rescue swimming vs survival swimming
    B. Swimming with a victim in tow
    C. Survival Float Technique
    D. Ferrying Angles

VII. Locating hidden obstructions
     A. Recognition of obstacle signs in the water
     B. Proper terminology
     C. Problem mitigation

VIII. Boat based rescue
      A. Safety in and around boats
      B. Proper rescue techniques from a boat

IX. Low-head dams
    A. Safety in and around low-head dams
    B. Terminology
    C. Rescue techniques

Learning Activities
Learning activities will be assigned to assist the student to achieve the intended learning outcomes through lecture, instructor-led class discussion, guest speakers, group activities, drills/skill practice, and other activities at the discretion of the instructor.

Grade Determination
The student will be graded on learning activities and assessment tasks. Grade determinants may include the following: daily work, quizzes, chapter or unit tests, comprehensive examinations, projects, presentations, class participation, and other methods of evaluations at the discretion of the instructor.