**COURSE OUTLINE**

**Fundamentals of Technical Rescue**

**Course Description**
FS 140. Fundamentals of Technical Rescue. 3 hours credit. Prerequisite: FS 100 with a C or better or concurrent enrollment in FS 100. This course will enable the student to identify and perform rescue procedures required by emergency personnel with emphasis on current hardware and procedural developments to the area of technical rescue. The student will research the specific hazards associated with natural and man-made disasters that are the results of our modern, technical society. The student will develop both public and personal safety awareness while training or working at an emergency scene.

**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. Identify and perform various rescue techniques that are current with rescue operational standards.
2. Demonstrate correct use of various tools and equipment used for rescues.
3. Identify safety issues inherent in the rescue scene.

**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 - Through analysis of information provided, the student will develop problem solving skills by generating a response to specific emergency situations.
- Critical thinking – By utilizing information learned from prior emergency situations and current rescue techniques and trends, the student will develop critical thinking skills.

**Technology Skills**
- Discipline-specific technology - Through a variety of projects, assignments, and hands-on activities that provide information relating to technical rescue, the student will develop technical rescue techniques using discipline-specific technology.

**Major Summative Assessment Task(s)**
These Butler-assessed Outcome(s) and Learning PACT skill(s) will be demonstrated by
1. Responding to a simulated technical rescue situation and performing rescue procedures using current hardware and procedural developments.

Skills or Competencies
These actions are essential to achieve the course outcomes:
1. Explain various rescue functions and techniques.
2. Use specific rescue equipment appropriately and safely.

Learning Units
I. Rescue services
   A. Introduction
   B. History
   C. Rescue specialties
   D. Regulations and standards

II. Water and ice rescues
    A. Introduction
    B. Water rescue and recovery
    C. Applicable standards
    D. Common water rescue misperceptions
    E. Rescue resources
    F. Search equipment
    G. Hazards and hazard assessment
    H. Victim care considerations

III. Rope rescues
     A. Introduction
     B. Situations requiring rope rescue
     C. Applicable standards
     D. Resource requirements
     E. Rope rescue equipment
     F. Response planning

IV. Vehicle extrications
    A. Introduction
    B. Applicable standards
    C. Resource requirements
    D. Response planning
    E. Rescue equipment
    F. Shoring equipment

V. Fire ground search and rescue
    A. Introduction
    B. Applicable standards
    C. Search operations
    D. Hazards and hazard assessment
E. Victim management
F. Resource requirements

VI. Confined space rescues
A. Introduction
B. Applicable standards
C. Confined space
D. Resource requirements
E. Response planning
F. Non-entry rescue procedures
G. Hazards and hazard assessment
H. Patient care considerations

VII. Structural collapse rescues
A. Introduction
B. Applicable standards
C. Resource requirements
D. Building construction types and expected behaviors
E. Collapse patterns and potential victim locations
F. Basic search methods

VIII. Trench rescues
A. Introduction
B. Applicable standards
C. Types of trench emergencies
D. Phases of a trench collapse
E. Contributing factors
F. Resource requirements
G. Hazards and hazard assessment
H. Initial hazard mitigation

IX. Special rescues
A. Introduction
B. Needs assessment
C. Resource management
D. Long-term operations
E. Emergency Medical Services

Learning Activities
Learning activities will be assigned to assist the student to achieve the intended learning outcomes through lecture, discussion, hands on exercises, and other activities at the discretion of the instructor. These activities may either be face-to-face or online.

Grade Determination
The student will be graded on completion of assessment tasks, learning activities, written examinations, and other methods of evaluation at the discretion of the instructor.