

Course Code: FST 154**Course Title:** Vehicle and Machinery Operations**Department:** Allied Health**Effective Date:** Summer 2026**PCS Code:** 1.2 - Occupational/Technical Instruction**CIP Code:** 43.0203**Repeatability:** 0

Credit Hours

Catalog Notation: 1-2-2**Credit Hour Distribution:**

Lecture: 1

Lab: 2

Clinical: 0

Total: 2

General Course Information

Catalog Description

Techniques used in auto extrication. Familiarization with different classifications/characteristics of vehicles/machines, different tools used in extrication, stabilization of the vehicle/machine, disentanglement of the patient(s), initiating patient care, initiating and terminating the ICS.

General Course Objectives

Give students a knowledge and practical understanding of vehicle and machinery extraction with a concentration on safe practices.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 098	Placement out of CCS 098	Placement into MAT 060

Prerequisites

None

Methods of Evaluation

3-5 module quizzes, 1 written exam, and 1 practical exam.

Instructional Materials and Additional Supplies

Vehicle Rescue and Extrication, Jones and Bartlett Learning; 2nd edition. 978-1284042177

Course Content

General Learning Outcomes (GLOs)

- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Introduction	1. Explain the requirements and purpose of vehicle and machinery rescue at the operations level.	3	0	0
New Car Construction and Technology	1. Identify and determine common types, features, and hazards of modern vehicles.	3	0	0
Industrial, Agricultural, and Construction Machinery	1. Identify and explain classifications of industrial, agricultural, and construction machinery and associated hazards.	2	0	0
Tools and Equipment	1. Identify common extrication tools, and describe their limitations.	2	0	0
Extrication Process	1. Identify and determine the different phases of the extrication process.	5	0	0
Practical Extrication Exercise	1. Construct a plan for safe execution and demonstrate use of common extrication tools and strategies during different phases of the extrication process in a variety of controlled scenarios.	0	30	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
15	30	0