



DMT 1110

Division: Career and Technical Education

Department: Automotive Technology

Course: DMT 1110

Title: Computer and Shop Skills

Catalog Description:

This course will instruct students on the basic use of computers and their applications in heavy duty mechanics. Shop safety, hand tools, precision measuring, forklift operation, and hazardous materials training will all be presented in some detail. Students will be required to pass a written safety exam before they are allowed to work in the lab.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 4; Lecture: 2; Lab: 5

Clock/Hour Requirements: 113

Offered for Non-Credit: No

Prerequisites: None

Corequisites: None

Justification:

Students must complete the course to function safely and effectively in the heavy duty mechanics field. Occupational, Safety, and Health Administration (OSHA), Mine Engineering Safety Administration (MESA), and other safety agencies require this type of training before employees go to work. This curriculum was developed using the nationally recognized Automotive Service Excellence (ASE) task lists, manufacturer training materials, advisory committee input, Utah Valley State College syllabi, and Salt Lake Community College documentation.

Student Learning Outcomes:

Upon successful completion, students should be able to:

- use a typical personal computer to perform shop information retrieval and reporting functions
- show safe work practices with hand tools, power tools, and forklifts
- handle hazardous materials found in a typical diesel shop
- measure components and parts with precision measuring tools
- identify and use typical fasteners.

Content:

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Course objectives will be accomplished by providing students with learning experiences in the following subject areas:

- career opportunities in heavy duty mechanics/safety program
- operating a personal computer
- basic keyboarding skills
- basic computer terminology
- service information systems
- use of factory service training systems
- introduction to networking.

General Education Outcomes:

Key Performance Indicators:

In Class:

- Student scores will be based on: written assignments (20%-30%), lab exercises (40%-50%), and quizzes and tests (20%-30%).

Following class:

- Upon completion of the course, competency will be demonstrated by safe behavior in subsequent courses and in the shop and by demonstrating computer literacy.

Representative Text and/or Supplies:

- Norman, Scharff, Corinchock, *Heavy Duty Truck Systems*, current edition, Delmar Publishers.

Optimum Class Size: 10

Maximum Class Size: 20

Signatures:

I hereby submit this course syllabus:

Dale Jensen, ,

I hereby find this course consistent with the goals and resources of the Automotive Technology Department:

Brent Reese, BS, Associate Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)