Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. Diesel Tech                        COURSE NUMBER:  DSL 2180
NUMBER OF CREDITS:  2cr.

COURSE TITLE:  Computerized Diagnostic systems

CATALOG DESCRIPTION:  The students will need to be able to operate the computer system used in the diagnostics of today’s electronic controlled engines, and drive trains. They will develop reports from the programs and store them for future reference. From this information they will learn to diagnose and make repairs to the unit being tested. Also they will send and receive information to the factory or service advisors. This course will cover basic Windows operations needed to operate the computerized diagnostic systems.

AUDIENCE: Diesel Mechanic and Diesel truck students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area: by meeting the following competencies:
Area: by meeting the following competencies:
Area: by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:

LENGTH OF COURSE: 2cr. / 48 hr.

THIS COURSE IS USUALLY OFFERED:
Every other year fall spring summer undetermined X

Four goals are emphasized in course at Minnesota West Community & Technical College:

ACADEMIC CONTENT: The academic objectives of this course are:
demonstrate basic understanding of the Internet
demonstrate basic understanding of use of email
demonstrate diesel engine data acquisition
diagnose diesel engine problem
troubleshoot diesel engine problem
create diagnostic report
demonstrate digital image acquisition
demonstrate understanding of presentation graphics program
demonstrate Windows as necessary to operate computerized diagnostic system

THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
By thinking through the data and information that the computer is giving. How they will use the data to make a logical decision for repair. Use of the different computer programs and using them together.
COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
Electron form of communication e-mail, power point, and written reports. By participation in class with Instructor and classmates.

HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
Understanding the roles of the technician in the communicating with a diverse population. Working effectively in teams comprised of diverse backgrounds, Express personal philosophies on diverse issues.

TOPICS TO BE COVERED:
Windows program
Power point
E-mail & internet use
Electronic Service Tool (EST)

LIST OF EXPECTED COURSE OUTCOMES: The student will become more comfortable with the use of computers and how they will need to use in the industry today.

LEARNING/TEACHING TECHNIQUES used in the course are:
X Collaborative Learning  X Problem Solving
Student Presentations  Interactive Lectures
Creative Projects  Individual Coaching
X Lecture  X Films/Videos/Slides
X Demonstrations  X Other (describe below)
X Lab  The use of computer programs in the Diesel program at the time class is offered.

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
X Reading  X Tests  X Individual Projects
Oral Presentations  X Worksheets  X Collaborative Projects
X Textbook Problems  X Papers  Portfolio
X Group Problems  Term Paper
Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES: The student will gain a 2.0 or higher GPA after completing this course of study.

"This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal."

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by
contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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