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                      COURSE NUMBER: DSL 2175

NUMBER OF CREDITS: 2 cr. 1 Lecture. 1 Lab.

COURSE TITLE: Truck Inspection and Preventive Maintenance

CATALOG DESCRIPTION: This course will cover preventative maintenance on medium and heavy-duty trucks and inspections for DOT requirements, and continued best performance and safe operation of the vehicle.

AUDIENCE: 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: 48 hours

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:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. To learn the proper preventive maintenance of the truck components to obtain the longest service life from the unit.
   b. To learn proper safety procedures to protect the technician and the environment.
   c. To learn and perform proper inspection procedures so that the truck will operate safely in on-road conditions.
2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. Looking over the trucks operating components and make a determination as to if it is safe to operate.
   b. The student will have to make calculations of the usability each of fluids, tires, belts, engine condition, and power train components.
   c. The student will have to make determination on how often to service the systems to gain longest life and best usefulness of all components.
   d. The students will be asked to think of how everything they deal with effect the environment.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. The student will need to talk with the customer about what their complaints are and then when they have completed the job explain what was done and why.
   b. The student will write a work order out for each job that they do and in some case they will need to write a report on the steps and outcome that they preformed on the unit.

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

TOPICS TO BE COVERED: This course will cover maintains of the truck from one end to the other to prevent problems out in services. The repair of marginal components and inspection of the unit so that the general public and environment is protected from major problems out in on-road conditions.

LIST OF EXPECTED COURSE OUTCOMES: The student will be able to perform DOT inspections. The student will have the knowledge base to maintain a truck or fleet of trucks for their best service life. The student will have a concern for the environment and the world around them.

LEARNING/TEACHING TECHNIQUES used in the course are:

- X Collaborative Learning
- X Problem Solving
- X Student Presentations
- X Interactive Lectures
- X Creative Projects
- X Individual Coaching
- X Lecture
- X Films/Videos/Slides
- X Demonstrations
- X Lab
- □ Other (describe below)
ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- X Reading
- X Tests
- X Individual Projects
- X Oral Presentations
- X Worksheets
- X Collaborative Projects
- X Textbook Problems
- X Papers
- X Portfolio
- [ ] Group Problems
- [ ] Term Paper
- [ ] Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES:

"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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