COURSE OUTLINE

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 Truck                     COURSE NUMBER: DSL 2165

NUMBER OF CREDITS: 3 cr. 1 lect. 2 Lab

COURSE TITLE: Vehicle Steering and Suspension

CATALOG DESCRIPTION: This course covers all steering systems used on medium and heavy-duty trucks. Steering axle alignment and repair is covered as well as tire wear troubleshooting. Suspension systems found on commercial vehicles. Drive axle alignment, frames, spring and air ride suspension repair, and adjustment.

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: 80

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 operating and conditions that the steering and suspension system function under.
   b. Learn to diagnose and make proper determination on repairs to bring the unit back to as good as new conditions.
   c. Make the needed repairs once the system is evaluated.

2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. To analyze the different systems and how they work.
b. To troubleshoot the operation of the steering and suspension system and make a judgment on proper repairs.
c. To order the right needed parts to make repairs.
d. To think through proper repair procedures to have the system operate like new.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. Talking to the customer or instructor and finding out what the problem is.
   b. Explaining to the customer or instructor what they found and how they intend to do to make repairs.
   c. Fill out a work order listing needed parts and explaining needed repairs.
   d. When the job is done there will be a oral or written report on the out come of the job.

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 all aspects of the steering system, suspension diagnoses and repair, wheel alignment, adjustment, and frame service and repair.

LIST OF EXPECTED COURSE OUTCOMES: The student will if they so desire be able to go into industry and be an alignment specialist or at least make a diagnoses of the needed repairs form an alignment shop.

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Problem Solving
- Interactive Lectures
- Films/Videos/Slides
- Other (describe below)
- Lab
- usage of computer programs when available

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Tests
- Individual Projects
X Oral Presentations    X Worksheets    X Collaborative Projects
X Textbook Problems    X Papers    □ Portfolio
□ 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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