INTRODUCTION & ORIENTATION TO DIESEL TECHNOLOGY
Course Syllabus

Course Number: TRUK-0379
OCAS Code: None
Course Length: 30 Hours
Career Cluster: Transportation, Distribution, and Logistics
Career Pathway: Medium/Heavy Diesel Truck Repair
Career Major(s): Diesel Service Technician

Pre-requisite(s):

Course Description: This course will cover the basic personal and shop safety used in the industry, this will also include hazardous material handling and storage. In this course the student will learn to identify, use and care for hand and power tools commonly found in the diesel repair industry. In this course the student will cover the basic scope of the Diesel industry and the basic components and systems found within this industry. Student will cover basic movement and parking procedures of vehicles and equipment. Students will learn about the history of the industry and explore opportunities in careers and employment in dealerships and independent shops, from maintenance to major overhaul.


Course Objectives: Introduction and Orientation to Diesel Technology

A. Complete Administrative Requirements for Enrollment.
   1. Complete forms pertaining to enrollment.
   2. Demonstrate knowledge necessary to receive Completion/ Competency Certificates.
   3. Discuss district, school, and class policies and procedures.
   4. Discuss grading criteria.

B. Participate in Career Tech Student Organizations (CTSO).
   1. Discuss the purpose of a CTSO organization.
   2. Form a CTSO club.
   3. List characteristics and responsibilities of leaders and effective group members.
   4. Participate in CTSO meetings and activities.

C. Discuss the History of the Diesel Industry.
   1. Discuss the history of the industry.
   2. Identify some of the present and future trends in the industry.
   3. Identify job opportunities available in the industry.
   4. Discuss additional training available.
   5. Discuss what interested you in this industry.
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6. Discuss State/National certification requirements.

D. Practice General Shop Safety.
1. Discuss the role of OSHA and EPA.
2. Identify parts and terms of a MSDS sheet.
3. Locate MSDS sheets in the classroom and job site.
4. Discuss types and location of fire extinguisher.
5. Match types of fire extinguisher with description of fire.
6. Demonstrate proper lifting methods.
7. Explain the need for proper clothing for a safe working environment.
8. Explain the proper steps in reporting an accident.
10. Discuss accident prevention.
11. Discuss current laws concerning "hazardous waste management" as it relates to your industry.
12. Participate in a Right to Know work shop
13. Complete a safety pledge form.
14. Complete an individual shop safety inspection.
15. Pass safety test with 100% accuracy before working in shop.

E. Complete Employability Task.
1. Complete resume.
2. Make portfolio.
3. Demonstrate computer literacy.

1. Review the role of OSHA and EPA.
2. Review parts and terms of a MSDS sheet.
3. Review location of MSDS sheets in the classroom or shop.
4. Review types and location of fire extinguishes.
5. Review proper lifting methods.
6. Review the proper steps in reporting an accident.
8. Review current laws concerning "hazardous waste management" as it relates to the diesel industry.

TTC Objectives

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures: 1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.
**INTRODUCTION & ORIENTATION TO DIESEL TECHNOLOGY**

<table>
<thead>
<tr>
<th>Description of Classroom, Laboratories, and Equipment:</th>
<th>Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.</th>
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</thead>
<tbody>
<tr>
<td>Available Certifications/College Credit</td>
<td>The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.</td>
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<tr>
<td>College Credit Eligibility:</td>
<td>The student must maintain a grade point average of 2.0 or better.</td>
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