DEM126 Introduction to Diesel II Syllabus

Course Information
Credits 3
Campus Washburn Institute of Technology
Address 5724 SW Huntoon
City/State/Zip Topeka, Kansas 66604
Office Fax 785-273-7080

Description
Course includes: Principles of basic hydraulics, introduction to hydraulics systems: open center, closed center, and pressure and flow compensating type systems; test procedures of cooling systems, air conditioning and refrigeration including safe handling of refrigerant gases, gauge testing, gas reclamation, and preventative maintenance procedures. Prerequisite: DEM130. **Students are expected to observe and comply with all safety rules and regulations at all times.**

Textbooks

Student Learning Outcomes:
A. Communicate effectively
B. Integrate technology
C. Learn effectively
D. Demonstrate cooperative teamwork skills
E. Think critically and creatively
F. Demonstrate responsible work ethics

Competencies
1. Draw a block diagram of a simple hydraulic system
2. Perform general maintenance procedures on a hydraulic system
3. Change hydraulic fluid and filter
4. Complete a job ticket
5. Use a computer system to obtain parts information
6. Install a radial lip seal
7. Clean and pack an anti-friction bearing
8. Test for combustion leakage into a cooling system
9. Test for air in a cooling system
10. Clean a cooling system
11. Change oil and oil filter
Guidelines for Success

Assessment Plan
Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution’s technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

Grading Criteria

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<tr>
<th>Percentage</th>
<th>Grade</th>
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<tr>
<td>90-100%</td>
<td>A</td>
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<tr>
<td>80 - 89%</td>
<td>B</td>
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<td>70 - 79%</td>
<td>C</td>
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<td>Below 70%</td>
<td>F</td>
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Instruction includes 30% lecture and 70% laboratory exercises.

Labs: Pass/Fail

Attendance
Classroom attendance is required. Material missed must be made up with instructor.

Disability
The Special Support Services (SSS) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities MUST register and provide documentation with the office to be eligible for services. New requests for accommodations should be submitted two months or more prior to the date services should begin; however, contact the SSS Office as soon as a need may arise. Depending on the accommodation request, four to eight week lead time may be needed for timely and effective provision of services. SSS coordinates and assist in arranging services it deems appropriate of eligible students on a case-by-case basis.

If you are a student with a disability that may substantially limit your ability to participate in this class and believe you will need accommodations, it is your responsibility to contact:

Special Support Services Coordinator
Phone: 785-228-6356
E-Mail: ssscoordinator@washburn.edu