



## **DEM243 BNSF Worksite Observation**

**Credit Hours: 1**

### **Description:**

This one hour Locomotive-Mechanic worksite observation is designed to allow the Locomotive Diesel students to view the engine components at the worksite to coincide with the courses for EMD and GE diesel engines and support systems in the NARS curriculum.

### **Supplies:**

Check with the instructor for details about any supplies that may be required.

### **Content Outline and Competencies:**

- I. Safety Orientation and Review
- II. EMD Engine in car body with accessories.
- III. EMD Basic engine component recognition.
- IV. EMD System operation – how to start, check temperature, oil, water, and proper running.
- V. GE Engine in car body with accessories.
- VI. Basic engine component recognition for GEVO
- VII. Troubleshooting and load test.
- VIII. Basic air brake component recognition
- IX. Basic air brake component servicing.
- X. Air brake troubleshooting and operation
- XI. Locomotive FRA – identify compliance rules
- XII. Locomotive walk-around to identify non-FRA compliant items.
- XIII. FRA compliance reporting – daily card, blue card.

## 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:

- 90-100%      A
- 80-89%      B
- 70-79%      C
- Below 70%    Failing
  
- Labs            Pass/Fail

Instruction includes 50% lecture and 50% laboratory exercises.

## Attendance:

Classroom attendance is required. Class attendance requirement is 90% for most of the programs.

## Disability:

The Americans with Disabilities Act (ADA) 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** self-identify by completing an application. In addition students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date the accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations. The ADA Office coordinates and assists in arranging accommodations it deems appropriate for 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 any of our classes and you believe that you will need accommodations, it is your responsibility to contact:

**ADA Coordinator**

**Phone: 785-228-6356**

**Email: [gloria.christian@washburn.edu](mailto:gloria.christian@washburn.edu)**



