



## Technical Standards

### DIESEL TECHNOLOGY

#### Washburn Institute of Technology/Washburn Tech

The technical standards discussed in the following chart define performance expectations that must be met for advancement through and successful completion of the **Diesel Technology Program**. It is the policy of Washburn Tech to provide reasonable accommodations for those with disabilities, health impairments, and other disabling conditions. These standards can also be used to determine whether accommodations or modifications are necessary and have been established through consideration by faculty and consultation with the following sources: consultation with the advisory committee for the program, The Vocational Rehabilitation Act, The Americans with Disabilities Act, Dictionary of Occupational Titles, O\*Net Online developed for the U.S. Department of Labor.

ABILITY	STANDARD	Some examples of necessary activities (not all inclusive)
<b>Thinking Skills</b>	<ul style="list-style-type: none"> <li>Apply theory and principles for proper diagnosis, repair, and maintenance of diesel powered equipment and systems.</li> </ul>	<ul style="list-style-type: none"> <li>Read and effectively apply information in manuals, diagrams and charts.</li> <li>Interpret readings on meters and gauges.</li> <li>Perform searches in manuals for manufacturer's specifications.</li> <li>Perform precise measurements and interpret readings.</li> <li>Identify functions, components, and operating systems of major internal and external components.</li> <li>Identify tools and materials.</li> <li>Follow and discuss safety procedures for hazardous waste handling and disposal.</li> <li>Follow all safety rules and use personal safety equipment according to state and school laws and regulations</li> <li>Inspect and test components and systems,</li> <li>Organize parts by type and function.</li> <li>Recognize indicators of malfunctions,</li> <li>Draw conclusions as a result of testing and observed indicators.</li> <li>Formulate a service or repair plan to test conclusions.</li> <li>Performs procedure according to published manufacturer procedures.</li> <li>Operate and navigate Windows based PC's for diagnostic purposes.</li> </ul>
<b>Observation Skills</b>	<ul style="list-style-type: none"> <li>Use observation skills to inspect and test components to determine root cause of failures and determine appropriate repair</li> </ul>	<ul style="list-style-type: none"> <li>Determine readings on meters, gauges, scales, dials, EVA, and electronic scan tools.</li> <li>Detect noises vibrations, temperatures,</li> </ul>

	procedures.	<ul style="list-style-type: none"> <li>and smells that indicate malfunctions.</li> <li>• Survey and select appropriate materials, tools, and equipment for maintenance and repairs.</li> <li>• Judge distance and spatial relationships of objects.</li> <li>• Recognize and interpret colors and textures of residue on parts.</li> </ul>
<b>Motor Skills</b>	<ul style="list-style-type: none"> <li>• Possess sufficient physical strength, flexibility, and dexterity to safely and independently manipulate components and equipment..</li> </ul>	<ul style="list-style-type: none"> <li>• Operate necessary tools and equipment.</li> <li>• Remove and replace failed components and small parts.</li> <li>• Position and maneuver in confined areas.</li> <li>• Perform necessary procedures at varying heights.</li> <li>• Lift and transport equipment and materials as necessary in safe and timely manner.</li> </ul>
<b>Communication Skills</b>	<ul style="list-style-type: none"> <li>• Communicate effectively to gather and convey information.</li> </ul>	<ul style="list-style-type: none"> <li>• Obtain necessary information in oral and written form.</li> <li>• Express information coherently in oral and written form.</li> <li>• Use checklists to complete work and perform inspections.</li> <li>• Complete job sheets clearly specifying parts, materials, and services.</li> </ul>
<b>Professionalism and Behavioral Skills</b>	<ul style="list-style-type: none"> <li>• Act appropriately and safely in a cooperative learning environment.</li> </ul>	<ul style="list-style-type: none"> <li>• Fulfill personal and shared responsibilities in an appropriate and timely manner.</li> <li>• Work cooperatively with staff and students in class and lab.</li> <li>• Exercise good judgment.</li> <li>• Follow a safety procedure and rules of conduct for this class as well as all state and federal regulations.(May require drug testing at time of employment)</li> <li>• 95% minimal attendance</li> </ul>
<b>Environmental Tolerance</b>	<ul style="list-style-type: none"> <li>• Perform and function safely in a diesel technology environment.</li> </ul>	<ul style="list-style-type: none"> <li>• Work for long periods with exposure to:</li> <li>• Extreme noise</li> <li>• Extreme heat</li> <li>• Sharp tools and materials</li> <li>• Electrical equipment</li> <li>• Chemicals</li> <li>• Dust and fumes</li> <li>• Machinery with moving parts</li> <li>• Moving objects and vehicles (CDL may be required)</li> <li>• Slippery and uneven surfaces</li> <li>• Variations in lighting and light sources</li> </ul>

Washburn University prohibits discrimination on the basis of race, color, sex, religion, age, national origin, ancestry, disability, marital or parental status, sexual orientation/gender identity, genetic information, or other non-merit reasons, in University programs and activities, admissions, educational programs or activities, and employment, as required by applicable laws and regulations. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pamela Foster, Equal Opportunity Director, Washburn University, 1700 SW College Ave, Topeka, Kansas 66621, 785.670.1509, [codirector@washburn.edu](mailto:codirector@washburn.edu)



**PLEASE COMPLETE THIS FORM AND RETURN IT TO THE INSTRUCTOR.**  
**TECHNICAL STANDARDS FOR ENROLLMENT IN DIESEL TECHNOLOGY.**  
Washburn Institute of Technology

**CHECK ALL THAT APPLY.**

- \_\_\_\_\_ I understand the expectations, as explained on the previous page, must be for advancement through and successful completion of the **Diesel Technology** program.
- \_\_\_\_\_ Upon admission to the program, I received a copy of the Technical Standards and they have been explained to me.
- \_\_\_\_\_ I would like to discuss the Standards checked below.
  - \_\_\_\_\_ A. Physical Demands / Motor Skills
  - \_\_\_\_\_ B. Critical Thinking /Sensory/Observation / Reasoning Skills
  - \_\_\_\_\_ C. Behavioral / Social Skills and Professionalism
  - \_\_\_\_\_ D. Communication Skills
  - \_\_\_\_\_ E. Working Conditions

**QUESTIONS OR COMMENTS:** (If additional information, attach another page.)

**SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**PLEASE PRINT NAME** \_\_\_\_\_

The Special Support Services (SSS) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Tech 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 weeks lead time** may be needed for timely and effective provision of services. SSS coordinates and assist in arranging services 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 this class and believe you will need accommodations, it is your responsibility to contact:

**Who:** Testing/ADA Coordinator  
**Phone:** 785-228-6356  
**E-Mail:** [ssscoordinator@washburn.edu](mailto:ssscoordinator@washburn.edu)

Student may voluntarily identify themselves to the instructor for a referral to the Special Support Services Coordinator.

Under the Family Educational Rights and Privacy Act, when a child turns 18 or attends a postsecondary institution, (if that happens first) all rights of the parents transfer to the student

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