

Diesel Mechanics Technology

Honolulu Community College's Diesel Mechanics Technology Program (DISL) curriculum has been designed to provide knowledge of heavy duty truck engines and chassis components and to develop proficiency in the maintenance and repair of diesel engines, fuel and electrical systems, and driveline and suspension components. Our goal is to prepare students to become entry-level heavy equipment technicians.

Program Entry Requirements

English Requirements:

Completion of ENG 20 BCDE
(native speakers only)
Completion of ESL 11, 13, and 17
(non-native speakers only)
OR
COMPASS* placement into ENG 21/51

Math Requirements:

Completion of Math 20 BCD
OR
COMPASS* placement
in Math 50 or 53
*UH Community College System placement test

Recommended Preparation

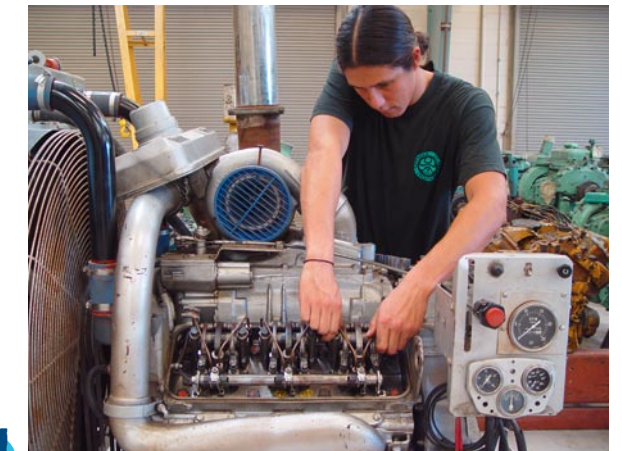
Basic math and English, auto mechanics, electricity, machinery, sheet metal, and welding

Costs (not including tuition)

Books, tools, and supplies: \$1500



DISL students identify names and functions of major internal and external components and operating systems.



DISL student inspects and tests components and systems.

Program Technical Standards



Our program technical standards have been developed to help students understand the minimum essential mental, physical, and behavioral skills necessary for participation in and completion of all core aspects of our curriculum.

As a DISL student, you will be expected to do the following:

General: Apply theory and principles for proper diagnosis, repair, and maintenance of heavy duty truck equipment and systems.

Specific: Read manuals, diagrams, and charts.

Interpret readings on meters and gauges.

Do searches in component manuals for manufacturer specifications.

Take measurements and do conversions.

Identify names and functions of major internal and external components and operating systems.

Identify tools and materials.

Discuss hazardous waste.

Follow safety procedures.

Assemble/disassemble parts in proper order.

Organize parts by type and function.

Inspect and test components and systems.

Recognize indicators of malfunctions.

Draw conclusions based on a review of findings.

Formulate service or repair plan.

Perform procedures according to manufacturer specifications.

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2 *DISL student detects sensory clues that indicate a problem.*

Sensory/ Observation skills **2**

General: Use sensory cues to inspect and test components to determine root causes of failures and respond properly.

Specific: Determine readings on meters, gauges, scales, and dials.
Detect and respond to noises, vibrations, temperatures and smells that indicate problems.
Survey and select appropriate materials, tools and equipment for maintenance and repairs.
Judge distance and spatial relationships of objects.
Recognize and interpret colors and textures of residue on parts.

Motor skills **3**

General: Possess sufficient physical strength, flexibility, and dexterity to safely and independently handle components.

Specific: Move and maneuver a diesel truck and forklift.
Operate necessary tools and equipment.
Remove and replace failed components and small parts.
Position and maneuver in confined spaces.
Work at varying heights.
Lift and transport equipment and materials as necessary.



3 *DISL student moves and maneuvers a forklift.*

Communication skills **4**

General: Communicate effectively to gather and convey information.

Specific: Obtain necessary information from oral and written sources.
Express information coherently.
Use checklists to complete work and do inspections.
Complete job sheets clearly specifying parts, materials, and services.

Behavioral skills **5**

General: Behave appropriately and safely in a cooperative learning environment.

Specific: Fulfill personal and shared responsibilities.
Work cooperatively with other students in class and lab.
Exercise good judgement.
Follow safety procedures.



DISL student works and maneuvers in a confined space.



General: Function safely in a heavy equipment shop environment.

Specific: Work for prolonged periods amidst:

Extreme noise

Extreme heat

Sharp tools and materials

Electrical equipment

Chemicals

Dust and fumes

Machinery with moving parts

Moving objects and vehicles

Slippery or uneven surfaces

Variations in lighting

For More Information

If you are interested in our program, we encourage you to meet with our DISL counselor (phone: 845-9129) and refer to the information at <http://tech.honolulu.hawaii.edu/disl/index.html> to decide whether the DISL program is right for you.

Please keep in mind that you will have to fulfill additional requirements to be eligible for certification exams or licensure in the field. For more information go to <http://www.asecert.org/>

Disability Accommodations

We have developed our technical standards in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. We will provide reasonable accommodations to qualified students with disabilities. If you are interested in our program, we encourage you to review the program technical standards and course information at <http://tech.honolulu.hawaii.edu/disl/index.html> to decide whether the DISL program is right for you.

If you have questions about the DISL program, please call the HCC Counseling Office at 845-9129. Individuals with hearing impairments may call 845-9270 (v/t) or use the Telecommunication Relay Service at 1-877-447-5990.

If you have questions about disability access and accommodations, please direct them to HCC's Services for Students with Disabilities (SSD) at 845-9282 (v/t), 845-9272 (v/t), or e-mail access@hcc.hawaii.edu. SSD will be happy to meet with you, evaluate your disability documentation, and, as appropriate, recommend reasonable accommodations consistent with your documented limitations and the technical standards of the program. We will keep your disability information confidential within the parameters of the accommodation process.