

DSL227W : Heavy-Duty Chassis, Brake, and Climate Control Systems

Heavy-Duty Chassis, Brake, and Climate Control Systems explores chassis frame, suspension, and undercarriage systems utilized in both on- and off-highway equipment. Students learn how undercarriage components are measured ultrasonically and view many different wear patterns. They study brake theory, along with basic brake foundation, antilock, air system, diagnostics, and servicing of heavy-duty on-highway brake systems. The course also covers air-over-hydraulic and multiple wet-disc systems used in off-highway equipment and explores aspects of climate control, including operating theory, maintenance, testing, and troubleshooting techniques of HVAC. Students learn to use testing equipment safely to diagnose and recharge A/C systems.

Lecture Hours 4

Lab Hours 3

Credits 5