

DSL211W : Heavy-Duty Power Trains

Heavy-Duty Power Trains introduces students to the theory and operation of heavy-duty driveline systems. The course covers theory and operation, nomenclature, maintenance, repair, and troubleshooting techniques. It also explores the principles of torque multiplication in transmissions, differential carriers, and final drives. Students learn about clutches, manual transmissions, powershift transmissions, torque converters, and related components. Laboratory work supports a hands-on approach to classroom theory. Students work individually or as teams where they apply theory and operating principles of power-train components.

Lecture Hours 3

Lab Hours 3 **Credits** 4