

DHM — Diesel Mechanics

DHM 105 Diesel Engines I 1 - 6 - 3

This course covers the basic study of diesel engine design and operating principles.

DHM 107 Diesel Equipment Service & Dia 1 - 6 - 3

This course is a study of heavy vehicle systems with emphasis on preventive maintenance, problem diagnosis, and repair procedures.

DHM 108 Diesel Engine Tune-up 1 - 3 - 2

Corequisites: DHM 273, DHM 265, DHM 125, DHM 205

This course is a study of diesel engine tune-up principles and practices. Students will explore ways to minimize overall operational costs, as well as the use of aftermarket add-on equipment such as performance electronic computer chips, high output turbochargers, and custom exhaust installation.

DHM 111 Introduction to Caterpillar 1 - 3 - 2

This course provides instruction and lab experience in shop safety, shop operations and how to obtain caterpillar service information.

DHM 121 Intro to Diagnostic Testing 2 - 0 - 2

This course is an introduction to basic theory and practical application of diagnostic testing equipment in trouble-shooting procedures. Content includes the study of diagnostic software and generic diagnostic readers for all major engine manufacturers.

DHM 125 Diesel Fuel Systems 1 - 6 - 3

Corequisites: DHM 273, DHM 265, DHM 108, DHM 205

This course is a basic study of diesel engine fuel systems including pumps, governors, and injectors.

DHM 156 Fund of Transmissions & Torque 2 - 3 - 3

Corequisites: DHM 232, DHM 255

This course is a study of various transmissions, torque converters, and differentials used in caterpillar equipment, including constant mesh, sliding gear, hydrostatic, and synchromesh and newer transmissions involving planetaries.

DHM 173 Electrical Systems I 2 - 3 - 3

This course is a study of basic electrical theory as applied to truck and heavy equipment batteries, starters, and alternators.

DHM 205 Diesel Engines II 1 - 6 - 3

Prerequisites: (DHM 105

Corequisites: DHM 273, DHM 265, DHM 108, DHM 125

This course covers the practical application of diesel engine repair, including engine disassembly, unit repair, reassembly, and testing.

DHM 232 Heating, Cooling & AC Systems 2 - 3 - 3

Corequisites: DHM 156, DHM 255

This course is an introduction to engine heating and cooling systems used in modern trucks. Various truck and heavy equipment air conditioning systems are explored.

DHM 255 Air Brakes Systems 1 - 6 - 3

Corequisites: DHM 156, DHM 232

This course is a study of air compressors, valves, electrical controls and brake designs

DHM 265 Hydraulic Systems 2 - 3 - 3

Corequisites: DHM 273, DHM 108, DHM 125, DHM 205

This course is a study of the theory, application, testing, and repair of diesel and heavy equipment hydraulic systems.

DHM 273 Electrical Systems II 3 - 0 - 3

Prerequisites: (DHM 173

Corequisites: DHM 265, DHM 108, DHM 125, DHM 205

This course covers advanced electrical/electronic controls for diesel trucks and heavy equipment. Troubleshooting and repair techniques are included.