

DIESEL ENG MECH/ REPAIR (DEMR)

DEMR 1229

Preventative Maintenance

CRT HRS:2 LEC HRS:1 LAB HRS:2 OTH HRS:0

This is an introductory course designed to provide the student with basic knowledge of proper servicing practices. Content includes record keeping and condition of major systems.

Prerequisite: None.

DEMR 1230

Steering and Suspension I

CRT HRS:2 LEC HRS:1 LAB HRS:4 OTH HRS:0

This course is a study of design, function, maintenance, and repair of steering and suspension systems. Emphasis is on troubleshooting and repair of failed components.

Prerequisite: None.

DEMR 1266

CAPSTONE: Practicum

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

DEMR 1303

Basic Driving Skills

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is an introduction to the use of a Class 8 combination vehicle. Emphasis will be placed on preparation to obtain a Texas Commercial Drivers License (CDL).

Prerequisite: None.

DEMR 1323

Heating, Ventilation, and Air Conditioning Troubleshooting and Repair

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is an introduction to heating, ventilation, and air conditioning theory, testing, and repair. Emphasis on refrigerant reclamation, safety procedures, specialized tools, and repairs.

Prerequisite: None.

DEMR 1401

Diesel Shop Safety and Procedures

CRT HRS:4 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is a study of diesel shop safety, rules, basic shop tools, and test equipment.

Prerequisite: None.

DEMR 1405

Basic Electrical Systems

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0

This course is an introduction to the basic principles of electrical systems of diesel powered equipment with emphasis on starters, alternators, and batteries.

Prerequisite: None.

DEMR 1410

Diesel Engine Testing and Repair I

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0

This course is an introduction to testing and repairing diesel engines including related systems specialized tools.

Prerequisite: None.

DEMR 1416

Basic Hydraulics

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0

This course covers the fundamentals of hydraulics including components and related systems.

Prerequisite: None.

DEMR 1417

Basic Brake Systems

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0

This course is an introduction to the basic principles of brake systems of diesel powered equipment. Emphasis is placed on maintenance, repairs, and troubleshooting.

Prerequisite: None.

DEMR 1442

Power Train Applications I

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0

This course provides in-depth coverage of the mechanics and theory of power trains. Emphasis is placed on disassembly, inspection, and repair of power train components.

Prerequisite: None.

DEMR 2432

Electronic Controls

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0

This course covers advanced skills in diagnostic and programming techniques of electronic control systems.

Prerequisite: None.