

Diesel Equipment Technician

Diploma (D341)

Required Courses

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| DHET 1101 | Diesel Equipment Fundamentals..... | 2 cr |
| DHET 1107 | Electrical Theory | 3 cr |
| DHET 1108 | Electrical Lab..... | 5 cr |
| DHET 1117 | Engine Theory..... | 3 cr |
| DHET 1118 | Engine Lab | 5 cr |
| DHET 1123 | Customer Service/Service Management 1 | 1 cr |
| DHET 1125 | Hydraulic Theory | 3 cr |
| DHET 1126 | Hydraulic Lab | 5 cr |
| DHET 1128 | Power Trains Theory..... | 2 cr |
| DHET 1129 | Power Trains Lab | 5 cr |
| DHET 1132* | On Highway Vehicle Systems Theory | 3 cr |
| DHET 1133* | On Highway Vehicle Systems Lab | 4 cr |
| ENGL 1422 | Practical Writing (Goals 1,2)..... | 3 cr |
| MATH 1500 | Applied Math | 3 cr |

*Denotes Prerequisites

GRADUATION REQUIREMENT - 47 CREDITS

Description

The Diesel Equipment Technician Diploma is an eleven-month program that includes an accelerated six-week summer session. This program concentrates on the hydraulic/hydrostatic, power train, electrical/electronics, and engine systems of off-road construction equipment such as crawlers, excavators, backhoes, front end loaders, motor graders, and skid steer loaders as well as on-highway vehicles. Two program options allow students to prepare for careers in maintenance, repair, and diagnostics of diesel equipment.

Outcomes

By completing this program, students will achieve the following learning outcomes:

- Apply safe shop and equipment practices;
- Demonstrate proper use and care of shop and personal tools;
- Inspect, diagnose, and conduct failure analysis and perform preventative maintenance inspections in electrical, hydraulic, engines and power train systems;
- Use service resources and software technologies;
- Apply fundamental skills and concepts to problem solving situations;
- Communicate effectively in written and speaking in diesel mechanics industry situations;
- Demonstrate a high level of craftsmanship and professionalism.

Pre-Program Requirements

Students enrolled in this program must supply their own basic tool sets. A guideline of what tools are needed is available from admissions.

For insurance purposes, internships may require that students be 18 years old.

Some courses may require students to meet College Placement Levels in reading, writing, and/or math. See an advisor for more information.

Graduation Requirements

In addition to the program requirements, students must meet the following conditions in order to graduate:

- College Cumulative GPA Requirement: cumulative grade point average (GPA) of credits attempted and completed at CLC must be at least 2.0;
- College Technical Core GPA Requirement: cumulative GPA of credits attempted and completed towards the technical core of the diploma or degree must be at least 2.0;
- Residency Requirement: students must complete 25% of their credits at Central Lakes College.

Career and Transfer

The Diesel Equipment Technician program allows students to prepare for careers in the maintenance, repair, and diagnostics of diesel equipment.

Graduates find employment at any of the following:

- original equipment manufacturing dealerships
- construction contractors
- independent repair facilities
- federal, state and local government agencies
- related forestry, mining, and petroleum industries

Career titles may include:

- Diesel and Heavy Equipment Technician
- Diesel Maintenance Technician
- Heavy Equipment Technician
- Heavy Truck Technician
- Diesel Technician
- Diesel Mechanic

Accreditation

This program is accredited by Associated Equipment Distributors (AED) Foundation.

Academic Plan

Semester One (20 credits)

DHET 1101 Diesel Equipment Fundamentals2 cr
MATH 1500 Applied Math.....3 cr

The following courses are offered in fall and spring semesters:

DHET 1125 Hydraulic Theory3 cr
DHET 1126 Hydraulic Lab.....5 cr
DHET 1128 Power Trains Theory2 cr
DHET 1129 Power Trains Lab.....5 cr

Semester Two (20 credits)

DHET 1123 Customer Service/Service
Management 11 cr
ENGL 1422 Practical Writing (Goals 1,2).....3 cr

The following courses are offered in fall and spring semesters:

DHET 1107 Electrical Theory3 cr
DHET 1108 Electrical Lab5 cr
DHET 1117 Engine Theory3 cr
DHET 1118 Engine Lab5 cr

Semester Three (Summer) (7 credits)

DHET 1132* On Highway Vehicle Systems Theory3 cr
DHET 1133* On Highway Vehicle Systems Lab.....4 cr