Diesel/Heavy Equipment Preventative Maintenance - COP

2024-25

Program map for Diesel/Heavy Equipment Preventative Maintenance Certificate of Proficiency (COP)

The Diesel/Heavy Equipment Preventative Maintenance program prepares students for careers in any industry that utilizes trucks, excavators, bulldozers, vessels or any other industrial equipment utilizing diesel power, hydraulics or other mechanical power transmission devices. This certificate is a shorter route to entry-level jobs.

See also

- **Degree Requirements for Manufacturing, Trades and Transportation programs (lowercolumbia.edu/programs/trades)**
- **Course descriptions in LCC Catalog (lowercolumbia.edu/publications/catalog/courses)**
- **Distribution lists in LCC Catalog (lowercolumbia.edu/publications/catalog/distribution-lists)**

(lowercolumbia.edu/program-maps/trades/) **Important**: Many course sequences only begin in fall quarter. Check with your program advisor.

By Quarter Overview

First Quarter

- COLL 101: College Success 101 (2 credits)
- MFG 105: Industrial Safety (3 credits)
- DHET 141: Hydraulics I (4 credits)
  - *DHET 142 or Instructor permission**
- DHET 142: Hydraulics II (6 credits)
  - *DHET 141 or MFG 140 or concurrent enrollment**
- DHET 100: Essentials of Mechanics (5 credits)

**Pre- and/or co-requisite(s)*

Second Quarter

- HLTH 105: First Aid, CPR and Bloodborne Pathogens (1 credit)

- DHET 104: Electrical Systems (15 credits)
- MATH 106: Industrial Mathematics (5 credits)
  - *MATH 079 or TECH 079 with a C or better or instructor permission**

**Pre- and/or co-requisite(s)*

Third Quarter

- ENGL 110: Industrial Communication (5 credits)
- DHET 114: Heavy Duty Brakes and Chassis (15 credits)
- BUS 144: Management of Human Relations: DIV (5 credits)

**Pre- and co-requisite(s)*

Detailed Class Sequence

1. College Success 101

COLL 101 (2 credits)

2. Industrial Safety

MFG 105 (3 credits)

3. Hydraulics I

DHET 141 (4 credits)
Pre- and/or co-requisite(s): DHET 142 or instructor permission

4. Hydraulics II

DHET 142 (6 credits)
Pre- and/or co-requisite(s): DHET 141 or MFG 140 or concurrent enrollment

5. Essentials of Mechanics

DHET 100 (5 credits)

6. First Aid, CPR and Bloodborne Pathogens

HLTH 105 (1 credit)

7. Electrical Systems

DHET 104 (15 credits)

Pre- and/or co-requisite(s): MFG 105 and HLTH 105

8. Industrial Mathematics

MATH 106 (5 credits)
Pre- and/or co-requisite(s): MATH 079 or TECH 079 with a C or better or instructor permission

9. Industrial Communication

ENGL 110 (5 credits)

10. Heavy Duty Brakes and Chassis

DHET 114 (15 credits)
Pre- and co-requisite(s): MFG 105 and HLTH 105

11. Management of Human Relations: DIV

BUS 144 (5 credits)

Program Maps for Manufacturing, Trades and Transportation (lowercolumbia.edu/program-maps/trades)

- **Advanced Manufacturing Technology - AAS (Engineering Technician and Multicraft Trades Option) (lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Engineering-Tech-Multicraft-Trades)**
- **Advanced Manufacturing Technology - AAS (Multicraft Trades and Production Technician Option) (lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Multicraft-Trades-Production-Tech)**
- **Advanced Manufacturing Technology - AAS (Production Technician and Engineering Technician Option) (lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Production-Tech-Engineering-Tech)**
- **Advanced Manufacturing for BAS-OLTM - AAS-T (Transfer Option) (lowercolumbia.edu/program-maps/trades/AAS-T-Advanced-Manufacturing-for-BAS-OLTM)**
- **Automotive Technology - AAS (lowercolumbia.edu/program-maps/trades/AAS-Automotive-Technology)**
- **Automotive Technology - AAS-T (BAS-OLTM Option) (lowercolumbia.edu/program-maps/trades/AAST-Automotive-Technology-to-BAS-OLTM)**
- **Automotive Technology - COP (lowercolumbia.edu/program-maps/trades/COP-Automotive-Technology-Maintenance-Light-Repair)**

- **Commercial Truck Driving - COC (lowercolumbia.edu/program-maps/trades/COC-Commercial-Truck-Driving)**
- **Computer Numerical Control - COP (lowercolumbia.edu/program-maps/trades/COP-Computer-Numerical-Control)**
- **Diesel/Heavy Equipment Preventative Maintenance - COP (lowercolumbia.edu/program-maps/trades/COP-Diesel-Heavy-Equipment-Preventative-Maintenance)**
- **Diesel/Heavy Equipment Technology - AAS (lowercolumbia.edu/program-maps/trades/AAS-Diesel-Heavy-Equipment)**
- **Diesel/Heavy Equipment Technology - AAS-T (BAS-OLTM Option) (lowercolumbia.edu/program-maps/trades/AAST-Diesel-Heavy-Equipment-to-BAS-OLTM)**
- **Engineering Technician - COP (lowercolumbia.edu/program-maps/trades/COP-Engineering-Technician)**
- **Machine Trades - AAS (lowercolumbia.edu/program-maps/trades/AAS-Machine-Trades)**
- **Machine Trades - AAS-T (BAS-OLTM Option) (lowercolumbia.edu/program-maps/trades/AAST-Machine-Trades-to-BAS-OLTM)**
- **Machinist - COP (lowercolumbia.edu/program-maps/trades/COP-Machinist)**
- **Multicraft Trades - COP (lowercolumbia.edu/program-maps/trades/COP-Multicraft-Trades)**
- **Production Technician - COP (lowercolumbia.edu/program-maps/trades/COP-Production-Technician)**
- **Welding - AAS (lowercolumbia.edu/program-maps/trades/AAS-Welding)**
- **Welding - COP (lowercolumbia.edu/program-maps/trades/COP-Welding)**
- **Welding for BAS-OLTM - AAS-T (Transfer Option) (lowercolumbia.edu/program-maps/trades/AAS-T-Welding-for-BAS-OLTM)**