

**Certificate of Proficiency (COP)**

# Diesel/Heavy Equipment Preventative Maintenance

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.

For a roadmap that identifies the preferred sequencing of courses and other specific recommendations from faculty, please see the corresponding program map(s):

- **Diesel/Heavy Equipment Preventative Maintenance - COP ( [lowercolumbia.edu/program-maps/trades/COP-Diesel-Heavy-Equipment-Preventative-Maintenance](http://lowercolumbia.edu/program-maps/trades/COP-Diesel-Heavy-Equipment-Preventative-Maintenance) )**

## Certificate Requirements

|                                   |   |
|-----------------------------------|---|
| Communications:                   | 5 credits – ENGL 110 Industrial Communications, ENGL& 101 OR 102 English Composition I & II, BUS 119 Business Communications, CMST& 220 Public Speaking, CMST&230 Small Group Communication |
| Quantitative Skills:              | 5 credits – MATH 106 Industrial Mathematics   |
| Human Relations / Social Science: | 5 credits – BUS 144 Management of Human Relations recommended   |

## Program Requirements

|          |  |    |
|----------|--|----|
| HLTH 105 | First Aid, CPR, and Bloodborne Pathogens         | 1  |
| MFG 105  | Industrial Safety                                | 3  |
| DHET     | Any DHET courses approved by the program Advisor | 45 |

**Diversity and Distribution Lists ( [lowercolumbia.edu/publications/catalog/distribution-lists](http://lowercolumbia.edu/publications/catalog/distribution-lists) )** are available in the Lower Columbia College Catalog located at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

*Total credits required for this certificate: 64*

## Students completing this program should acquire the following skills and abilities:

- Communicate professionally in writing and speaking as appropriate to an industrial technology work environment (GS).
- Apply objective, valid methods of inquiry and problem solving to draw rational, ethical, and coherent conclusions (GS).
- Apply mathematical information to perform tasks in industrial technology (GS).
- Interact effectively with individuals and groups (GS).
- Apply industry standard safety and hazardous material handling guidelines.
- Display work appropriate behavior including positive attitude and teamwork.
- Apply knowledge of computer programs to create professional, academic, or business documents following current industry standards.
- Complete tasks accurately, safely and within a given timeframe.
- Demonstrate competency in accurately following service information procedures and documenting work performed.
- Demonstrate the required skills needed to troubleshoot and repair basic mechanical systems including hydraulic, electrical, air and hydraulic brakes, engine, power transmission, chassis and air conditioning.

**Revised March 2021 (Effective Summer 2021)**

**Notes:**

Consult an advisor if you have any questions.