

**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.

*Total credits required to earn this certificate: 67.*

## 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 088/089 Pre-College Math I <i>OR</i> higher
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 100	Foundational Skills for the Trades	3
MFG 105	Industrial Safety	3
DHET	Any DHET courses approved by the program Advisor	45

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

*Total credits required for this certificate: 67*

## 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 June 2019 (Effective Summer 2019)**

## Planner

Advisor: Ken Ecklund, (360) 442-2741, kecklund@lowercolumbia.edu - Jim Dillinger, (360) 442-2742, jdillinger@lowercolumbia.edu

		Entry Quarter
√	Courses	Crs
	MFG 100 (A)	3
	HLTH 105 (A)	1
	MFG 105 (A)	3
	MATH 106 (A)	5
	BUS 144 (A)	5
<b>Total:</b>		<b>17</b>

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
	DHET 100 (F)	5		DHET 104 (W)	15		DHET 105 (Sp)	5			
	DHET 141 (F)	4		ENGL 110 (A)	5		DHET 114 (Sp)	15			
	DHET 142 (F)	6									
<b>Total:</b>		<b>15</b>	<b>Total:</b>		<b>20</b>	<b>Total:</b>		<b>20</b>	<b>Total:</b>		

**Notes:**

This is a tentative schedule. Students may adjust the credit load according to their needs. The sequence should stay approximately as listed above even though there is some flexibility. Consult an advisor if you have any questions.  
Legend:

- A - Course usually offered all quarters.
- F - Course usually offered Fall Quarter.
- W - Course usually offered Winter Quarter.
- Sp - Course usually offered Spring Quarter.
- S - Course usually offered Summer Quarter.