

Associate in Applied Science - Transfer (AAS-T)

# Diesel/Heavy Equipment Technology

## for LCC BAS-OLTM

The Diesel/Heavy Equipment Technology AAS-T program prepares students for careers in any industry that utilizes trucks, heavy equipment, vessels or any other industrial equipment utilizing diesel power, hydraulics or other mechanical power transmission devices. With a strong emphasis on fluid power, LCC's Diesel/Heavy Equipment Technology program is one of few accepted for membership in the National Fluid Power Association. This program also meets the academic requirements to apply for admittance into Lower Columbia's Bachelor of Applied Science degree in Organizational Leadership and Technical Management which prepares industry professionals for positions in leadership, management and supervision.

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 Technology - AAS-T (BAS-OLTM Option) ( [lowercolumbia.edu/program-maps/trade-s/AAS-Diesel-Heavy-Equipment-to-BAS-OLTM](http://lowercolumbia.edu/program-maps/trade-s/AAS-Diesel-Heavy-Equipment-to-BAS-OLTM) )**

## Degree Requirements

- **Communications:**  
5 credits – ENGL& 101 English Composition I
- **Quantitative Skills:**  
5 credits – MATH& 107 Math in Society or higher with the exception of MATH& 131
- **Humanities:**  
5 credits – From the Distribution List
- **Natural Sciences:**  
5 credits – Natural Science with lab from the Distribution List
- **Diversity / Human Relations:**  
5 credits – BUS 144 Management of Human Relations: DIV
- **Social Science:**  
5 credits – SOC& 101 Introduction to Sociology: DIV or ANTH& 206 Cultural Anthropology: DIV

## Program Requirements

COLL 289	Employment Portfolio Seminar	1
CS 110	Introduction to Microcomputer Applications	3
DHET 100	Essentials of Mechanics	5
DHET 104	Electrical Systems	15
DHET 105	Vehicle Climate Control	5
DHET 114	Heavy Duty Brakes and Chassis	15
DHET 141	Hydraulics I	4
DHET 142	Hydraulics II	6
DHET 210	Diesel Engine Rebuild	15
DHET 215	Heavy Duty Engine Performance	15
DHET 220	Heavy Duty Power Trains	10
DHET 230	Advanced Shop Practices	5
HLTH 105	First Aid, CPR and Bloodborne Pathogens	1
MFG 105	Industrial Safety	3
DHET 288	Cooperative Work Experience	2

DHET 299 may be substituted for COLL 289 and DHET 288 (3 credits) with program advisor permission.

**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 to earn this degree: 135*

### **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 Communication).
- Apply objective, valid methods of inquiry and problem solving to draw rational, ethical, and coherent conclusions (GS Critical Thinking).
- Apply mathematical information to perform tasks in industrial technology (GS Numeracy/Quantitative Literacy).
- Interact effectively with individuals and groups (GS Interpersonal relations).
- Apply industry standard safety and hazardous material handling guidelines.
- Display work appropriate behavior including positive attitude, timeliness 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 advanced mechanical systems including hydraulic, electrical, air and hydraulic brakes, engine, power transmission, chassis and air conditioning.

***Revised December 2021 (Effective Summer 2022)***

### **Notes:**

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor and with an advisor at the college to which they plan to transfer for specific requirements. Consult the LCC catalog for LCC graduation requirements.