

CERTIFICATE OF ACHIEVEMENT

The Diesel/Heavy Equipment program prepares students to enter the workforce as technicians to maintain, diagnose, and repair heavy equipment. Students will learn diesel engine and propulsion systems, fuel management systems, related accessory components, as well as hydraulics, welding certifications, and HVAC certifications. All students will be prepared to take ASE certification exams at the completion of the appropriate course. Integral to this program is a paid internship component, allowing students to gain valuable work experience prior to completion of their program, making them more employable.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Prepare for employment in the Diesel Technology Industry as a Maintenance Technician.
- Successfully pass the AWS D1.1 mild steel horizontal welding certification.
- Successfully pass the IMACA refrigerant handling certification.
- Successfully pass the SP2 safety and pollution prevention certification.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3	_____

SPECIAL PROGRAM REQUIREMENTS (28) Credits:

	CR	SEMESTER
DT 104 Diesel Equipment Service	4	_____
DT 115 Diesel/Heavy Equipment Electrical Systems	4	_____
DT 136 Diesel Engine Repair I	4	_____
DT 165 Diesel/Heavy Equipment Heating and Air Conditioning	4	_____
DT 295 Internship Co-Op I	2	_____
DT 296 Internship Co-Op II	2	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MTL 223B Special Topics in Welding Technology	4	_____

Computation included in DT 115
Human Relations included in DT 295

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

DLS-CT **31** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

**Guided Pathway
Certificate of Achievement – (COA)
Diesel Heavy Equipment Maintenance Technician
Total Credits 31**

First Semester	Requirement	Credit Hours	Term
BUS 108	Communications	3	
DT 104	Diesel Equipment Service	4	
DT 115	Diesel/Heavy Electrical Systems	4	
	TOTAL	11	
Second Semester	Requirement	Credit Hours	Term
DT 136	Diesel Engine Repair I	4	
DT 165	Diesel/Heavy Equipment Heating, Air conditioning	4	
MT 108	Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	
	TOTAL	12	
Third Semester	Requirement	Credit Hours	Term
MT 223	Special Topics in Welding Technology	4	
DT 295	Internship Co-Op I	2	
	TOTAL	6	
Fourth Semester	Requirement	Credit Hours	Term
DT 296	Internship Co-Op II	2	
	TOTAL	2	
	Certificate TOTAL	31	

Comments: DT295 and DT296 can be completed anytime during the program as the student is working in the Diesel Field