

DIESEL EQUIPMENT TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE **(DIESL D535)**

FCC	LTC	OCC	✓ WVC
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The major objective of this program is to develop competent diesel-power equipment technicians. The program combines concentrated study and work experience so that the student acquires a basic knowledge of science and mathematics, as well as a knowledge of the basic mechanical principles, and the high-technical skills needed for successful entry into the job market. The primary emphasis of this program is the development of mechanical skills, but education and training in parts department operation and management skills are also provided.

Graduates of this program qualify for employment as farm, industrial, and truck equipment mechanics with specialization possible in diesel and/or gas engine repair, hydraulic system repair, power transmission repair, electrical system repair, air conditioning, and equipment assembly and handling. Students are required to provide a basic set of hand tools.

First Semester **Credit Hours 17**

DEQ 1211	Engine Fundamentals	3
DEQ 1212	Electrical Systems I	3
DEQ 1213	Diesel Fuel Systems I	2
DEQ 1214	Brakes/Suspension Systems	3
DEQ 1215	Transmissions I	3
WEL 1201	Basic Welding OR	3
WEL 1203	Practical Welding	

Second Semester **Credit Hours 19**

DEQ 1221	Hydraulics I	4
DEQ 1222	Air Conditioning Certification	3
DEQ 2215	Industry Qualifications	3
GEN 2297	Employment Skills ¹	V3
MTH 1201	Technical Mathematics ¹ OR	
	College Level Math ¹	V3
BUS 1104	Business Psychology ^{1*} OR	
PSY 1101	General Psychology ^{1*}	3

Summer Semester **Credit Hours 3.5**

DEQ 2236	Supervised Work Experience	V3.5
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Third Semester **Credit Hours 14**

AUM 2250	Shop Organization & Management	V2
DEQ 2232	Hydraulics II	4
DEQ 2243	Electronic Controls/Monitoring	3
DEQ 2249	Supervised Work Experience II	V5

Fourth Semester **Credit Hours 16**

DEQ 2234	Planting/Harvesting Equipment	3
DEQ 2241	Engine Performance/Diagnostic	2
DEQ 2242	Diesel Power Equipment Repair	4
DEQ 2244	Global Positioning Technology	V1
ENG 1111	Composition I ¹ OR	
ENG 1201	Communications ¹	3
PHI 2111	Introduction to Logic ¹	<u>3</u>

Total Credit Hours **69.5**

¹General Education Hours (15)

*This course satisfies the IECC human diversity requirement.