

**DIESEL TECHNOLOGY**

This program of study emphasizes the skills needed for employment in the heavy duty diesel industry.

- **Associate of Applied Science Degree Option** - The Associate of Applied Science degree, in Diesel Technology, is a four semester program that contains technical, advanced technical and general education courses. This is an ASE certified NATEF program. Instructors are Master ASE Certified. This program is a mandatory Associates Degree program.

**Admission Criteria:** Placement test, preadmission advising, and high school students must start the Diesel Technology program as juniors.

**Technical and General Education Courses**

Fall Semester – Year A			Spring Semester – Year A		
Course Title	Credits		Course Title	Credits	
ENV 102	Safety Orientation (OSHA 10)	1	DST 106	Drive Trains	3
DST 101	Diesel Engines 1	5	DST 107	Standard Transmissions	3
DST 102	Electrical/Electronic Systems	5	DST 108	Wheel ends	3
DST 103	Emissions	2	DST 109	Brakes	3
ENG 100	Technical Writing or ENG 101 English Composition I	3/5	HUM 101	Ethics in the Workplace or PSY 101 General Psychology	3
			COM 105	Public Speaking	3
		<b>Credits</b>			<b>Credits</b>
		<b>16/18</b>			<b>18</b>

Fall Semester – Year B			Spring Semester – Year B		
Course Title	Credits		Course Title	Credits	
DST 201	Powershifts	4	DST 207	Advanced Diesel Engines	5
DST 202	Torque convertors	1	DST 208	Fuel lab	1
DST 203	Hydrostatic Drive	2	DST 209	Advanced Electrical/Electronic Systems	5
DST 204	Hydraulics	5	DST 211	HVAC	2
DST 206	Suspension and Steering	3	CSA 105	Introduction to Computer Applications and Concepts	3
MAT 101	Technical Math or MAT 150 College Algebra	3/5			
		<b>Credits</b>			<b>Credits</b>
		<b>18/20</b>			<b>16</b>
					<b>Total Education Credits</b>
					<b>68/72</b>

**PROGRAM OUTCOMES**

- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Basic Engines.
- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Basic Power Trains and Cab Air Conditioning.
- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Brakes-Hydraulic and Air.
- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Electrical Systems.
- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Torque Converters and Power Shift Transmissions.
- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Hydraulics, Hydrostatic Drive, Steering and Suspension Systems.

- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Diesel Fuel Injection Systems.
- Develop a basic understanding and demonstrate the ability to perform the entry level skills in Major Diesel Engine Overhaul, Dyno Testing and Tune-Up.
- Develop communication, critical thinking and technical skills needed to attain employment.
- Develop human relation skills and professional behavior for the workplace, including appropriate business attire, attendance, punctuality, telephone and business protocol and professionalism.
- Develop an understanding of the importance of work related skills, such as: working independently, teamwork, following directions, time management, problem solving and critical thinking.

#### **GENERAL EDUCATION PROGRAM OUTCOMES**

- Compose coherent written communication.
- Deliver coherent oral communication.
- Show proficiency in locating, analyzing, documenting, and ethically using information sources.
- Perform and interpret calculations.
- Develop logical problem solving skills and/or critical thinking skills.
- Identify appropriate strategies for gathering, analyzing, and displaying data to draw conclusions from scientific data.
- Collaborate effectively, which cultivates a respect for human diversity.
- Demonstrate technology literacy appropriate to area of study.



