

Diesel Technology 2008-2009

The Diesel Technology program prepares students for a career in the area of diesel repair. Instruction is in the repair, maintenance, and testing of diesel engines, power trains, and components of trucks and heavy construction equipment.

This program is accredited by the AED Associated Equipment Distributors www.AEDnet.org

Location: Ankeny

Program Entry Requirements

Complete an application, satisfy the assessment requirement, complete a mechanical aptitude and ability test, and attend any required information/registration session.

Students start any term.

Graduation Requirements

To earn a Diesel Technology diploma or AAS degree, a student must complete all course work as prescribed and maintain a 2.0 grade point average.

Required Courses- Diploma

DSL 356	Diesel Engines I	6
DSL 366	Diesel Engines II	6
DSL 546	Power Trains I	6
DSL 605	Hydraulics and Brakes	5
DSL 145	Basic Electricity	5
DSL 733	Air Conditioning	3
DSL 830	Operation and Maintenance	5

Select 1 Course from Each Option

COM 703	Communication Skills	Opt 1	3
ENG 105	Composition I	Opt 1	3
MAT 772	Applied Math	Opt 2	3
MAT 141	Finite Math	Opt 2	4
MAT 130	Trigonometry	Opt 2	3

Total credits required to complete the diploma 42

Required Courses- AAS

DSL 356	Diesel Engines I	6
DSL 366	Diesel Engines II	6
DSL 546	Power Trains I	6
DSL 605	Hydraulics and Brakes	5
DSL 145	Basic Electricity	5
DSL 733	Air Conditioning	3
DSL 830	Operation and Maintenance	5
DSL 555	Power Trains II	5
DSL 409	Diesel Electronics	5
DSL 407	Diesel Fuel Systems	6
DSL 155	Advanced Electricity	4
DSL 845	Heavy Equipment Repair	5
DSL 855	Truck Repair	5
AUT 140	Welding for Automotive Mechanics	2

Select 1 Course from Each Option

COM 703	Communication Skills	Opt 1	3
ENG 105	Composition I	Opt 1	3
MAT 772	Applied Math	Opt 2	3
MAT 141	Finite Math	Opt 2	4
MAT 130	Trigonometry	Opt 2	3
MGT 145	Human Relations in Business	Opt 3	3
PSY 111	Introduction to Psychology	Opt 3	3
PSY 102	Human & Work Relations	Opt 3	3
SOC 110	Introduction to Sociology	Opt 3	3
PHY 106	Survey of Physics	Opt 4	4
PHY 710	Technical Physics	Opt 4	3

Total credits required to complete AAS degree 80

PROGRAM INFORMATION BRIEF (CONT.)

Fixed Costs

Tuition \$ 107.00 per credit

The costs for each program are estimates and subject to change.

Varied Costs

Table with 7 columns: Term 1, Term 2, Term 3, Term 4, Term 5, Term 6. Rows include Books (approximate), Supplies, and Equipment - Tools (approximate).

Approximate total for the diploma program: \$8,555.00, AAS degree \$12,735.00

What Kind of Work Will You Do?

- Diagnose mechanical and functional failures
• Remove, repair, and install various components from diesel equipment
• Diagnose and repair electrical and hydraulic systems
• Modify existing machinery to improve or adapt from its original design
• Make recommendations concerning the repair and maintenance of machinery
• Order parts and submit repair bills and estimates for the repair of machinery
• Use special tools and equipment to diagnose the condition of machines, systems, and components
• Plan and organize work requested to repair a machine
• Use computers to retrieve information and service equipment

What Skills and Abilities Will You Need?

- Be goal oriented
• Be able to lift a minimum of 50 pounds
• Be able to follow directions and work well with others
• Be able to use mechanical skills and apply theoretical knowledge
• Be able to grasp new ideas and concepts rapidly
• Ability to read and comprehend new information
• Ability to communicate with others in the industry

What Else Should I Consider about this Program or Career Choice?

- Graduates have moved into management positions in 3-5 years
• Some positions require a Class A CDL license
• There is a minimum investment in tools
• Graduates will usually be required to serve 2 or 3 years as an apprentice before attaining a journeyman status
• Possess a strong personal commitment to succeed as a technician
• Average starting salary, Diploma: \$23,940; AAS Degree: \$25,868 (2006-2007 Placement Report)

Diesel Technology (2008-2009)

RECOMMENDED HIGH SCHOOL COURSES:

Speech, Algebra I, Applied Math, Geometry, Auto Mechanics, Electronics, General Business, Industrial Arts

Des Moines Area Community College shall not engage in or allow discrimination covered by law. This includes harassment based on race, color, national origin, creed, religion, gender, sexual orientation, age, and disability. Veteran status in educational programs, activities, employment practices, or admission procedures is also included to the extent covered by law.