

WESTERN DAKOTA

TECHNICAL COLLEGE

DIESEL TECHNOLOGY

Associate of Applied Science, 66 Credit Hours, 18-Month Program

The Diesel Technology program will provide education in most types of land transportation, vehicles, and construction equipment to include trucks, tractors, construction equipment, and mining equipment. Students will be competent in the service and repair of diesel engines, hydraulic systems, fuel systems, electrical systems, manual and automatic transmissions, brake systems, and steering and suspension systems. Graduates will be student ASE certified and complete the United States Clean Air Act Section 609 Refrigerant Recycling and Recovery Certification Program. Students will be able to work safely and efficiently in a field or shop environment in accordance with OSHA and MSHA regulations.

Course No.	Course Title	Credits
General Education Requirements		
CSC 105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ENGL 106	WORKPLACE COMMUNICATIONS I*	3
MATH 100	ELEMENTARY ALGEBRA** <i>or higher</i>	3
PSYC 103	HUMAN RELATIONS IN THE WORKPLACE	3
SOC 100	INTRODUCTION TO SOCIOLOGY	3
	Total	15
Technical Requirements		
DT 100	INTRODUCTION TO DIESEL TECHNOLOGY	3
DT 115	PREVENTATIVE MAINTENANCE	3
DT 122	VEHICLE ELECTRICITY AND ELECTRONIC SYSTEMS	6
DT 135	UNDER-TRUCK DIAGNOSTICS	8
DT 150	HYDRAULICS I	3
DT 155	DIESEL ENGINES I	5
DT 205	DIESEL TECHNOLOGY HVAC	3
DT 230	SHOP MANAGEMENT	3
DT 235	HEAVY DUTY POWERTRAINS	4
DT 250	HYDRAULICS II	3
DT 255	DIESEL ENGINES II	8
WDM 100	WELDING AND FABRICATION FOR GENERAL APPLICATIONS	2
	Total	51

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

**Prerequisite: Acceptable ACCUPLACER score or Basic Math.

Semester breakdown on next page

2024-2025 Academic Catalog – 6/2024

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Semester Breakdown AAS

First Semester			Second Semester		
		CR			CR
CSC 105	Microcomputer Software Applications I	3	DT 135	Under-Truck Diagnostics	8
DT 100	Introduction to Diesel Technology	3	DT 155	Diesel Engines I	5
DT 115	Preventative Maintenance	3	ENGL 106	Workplace Communications I	3
DT 122	Vehicle Electricity & Electronic Systems	6	WDM 100	Welding and Fabrication for General Applications	2
DT 150	Hydraulics I	3			
Total Credit Hours		18	Total Credit Hours		18
Third Semester			Fourth Semester		
		CR			CR
DT 205	Diesel Technology HVAC	3	DT 250	Hydraulics II	3
DT 230	Shop Management	3	DT 255	Diesel Engines II	8
DT 235	Heavy Duty Powertrains	4	SOC 100	Introduction to Sociology	3
MATH 100	Elementary Algebra <i>or higher</i>	3			
PSYC 103	Human Relations in the Workplace	3			
Total Credit Hours		16	Total Credit Hours		14

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.