

# WESTERN DAKOTA TECH

## **DIESEL TECHNOLOGY – INDUSTRIAL MAINTENANCE TECH**

### **Associate of Applied Science, 64 Credit Hours, 18-Month Program**

Western Dakota Technical College's Diesel Technology program has teamed up with local industry partners to enhance an educational opportunity in high demand mining production. This educational opportunity is based on already established courses in a combination of successful programs, providing students with knowledge and skills needed in a quickly emerging industry.

Graduates of this program will be able to seek employment in a variety of settings, including entry-level employment as a General Maintenance & Repair Technician, Machine Tender, and/or Maintenance Mechanic Supervisor.

Course	No.	Course Title	Credits
<b>General Education Requirements</b>			
CIS	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
<b>Total</b>			<b>15</b>
<b>Technical Requirements</b>			
DT	110	HEAVY DUTY POWERTRAINS	4
DT	115	PREVENTATIVE MAINTENANCE	3
DT	120	DIESEL ENGINES I	5
DT	210	HYDRAULICS I	3
DT	222	VEHICLE ELECTRICITY & ELECTRONIC SYSTEMS	6
DT	250	HYDRAULICS II	3
DT	255	DIESEL ENGINES II	8
IEL	105	INTRODUCTION TO INDUSTRIAL ELECTRONICS	4
IEL	135	BASIC ELECTRICAL MATERIALS AND DEVICES	1
IEL	217	SPECIAL SYSTEMS	4
MACH	113	TURNING THEORY AND OPERATIONS	3
MACH	123	MILLING THEORY AND OPERATIONS	3
WDM	100	WELDING AND FABRICATION FOR GENERAL APPLICATIONS	2
<b>Total</b>			<b>49</b>

\*Prerequisite: Acceptable AACUPLACER score or Basic Writing.

\*\*Prerequisite: Acceptable ACCUPLACER score or Basic Math.

2022-2023 Academic Catalog - 5/2022

Apply online today at [wdt.edu](http://wdt.edu) or call Admissions Department at (605)718-2565 or email [admissions@wdt.edu](mailto:admissions@wdt.edu)

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## Semester Breakdown AAS

First Semester			Second Semester		
		CR			CR
DT 115	Preventative Maintenance	3	CIS 105	Microcomputer Software Applications	3
DT 210	Hydraulics I	3	DT 120	Diesel Engines I	5
DT 222	Vehicle Electricity & Electronic Systems	6	ENGL 106	Workplace Communications I	3
IEL 105	Introduction to Industrial Electronics	4	IEL 135	Basic Electrical Materials and Devices	1
			MATH 100	Elementary Algebra <i>or higher</i>	3
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>15</b>
Third Semester			Fourth Semester		
		CR			CR
DT 110	Heavy Duty Powertrains	4	DT 250	Hydraulics II	3
MACH 113	Turning Theory and Operations	3	DT 255	Diesel Engines II	8
MACH 123	Milling Theory and Operations	3	IEL 217	Special Systems	4
PSYC 103	Human Relations in the Workplace		SOC 100	Introduction to Sociology	3
WDM 100	Welding and Fabrication for General Applications	2			
<b>Total Credit Hours</b>		<b>15</b>	<b>Total Credit Hours</b>		<b>18</b>

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.