

# Diesel Technology: Equipment Management

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Our Diesel Technology programs offer a unique, hands-on technology education recognized by industry leaders as on the nation's leading diesel programs. Our curriculum is relevant to students' lives and careers, valuable in terms of content and competencies and connected to the needs of industry. It strives to provide an environment that fosters excellence in learning and one that nurtures discovery of knowledge for advancement, academic excellence in the classroom, and personal growth through collaboration and teamwork.

## Mission Statement

The mission of the Diesel Technology program is to provide students with the working knowledge, technological proficiency, and professional skills necessary to be successful in a variety of careers related to diesel technology. Our faculty instructors and cutting-edge Diesel Technology Center provide students a unique opportunity to gain hands-on and technology-driven educational experiences that reflect industry standards and expectations.

## Learning Outcomes for Diesel Technology Equipment Management, BS

Upon completion of this program, students will be able to, in accordance with industry standards:

- Apply basic diagnostic and repair procedures for machine systems and components.
- Apply basic diagnostic and repair procedures for hydraulic systems.
- Demonstrate a working knowledge of the general nature, structure, resources, and operations of business organizations.
- Use computer-based resources to diagnose and repair on and off-highway equipment.
- Use diagnostic devices to communicate with equipment and machine controllers.
- Work within current industry safety guidelines and standards to ensure a safe working environment.
- Use written communication to analyze and convey information in a clear, concise, and professional manner.
- Use verbal communication and visual aids to convey information to an audience in an effective, professional manner.

## Bachelor of Science in Equipment Management

Learning Outcome: Demonstrate the effectiveness of incorporating computer based testing with the B.S. Diesel Technology - Equipment management option. Successful completion and submission of electronic work-orders. Demonstrate understanding of Cost Accounting

## Required Courses

Code	Title	Credits
General Education Core ( <a href="https://catalognow.msun.edu/general-education-core/general-education-core/">https://catalognow.msun.edu/general-education-core/general-education-core/</a> )		33
<b>Required Courses</b>		
DST 104	Intro to Diesel Engines	3
DST 114	Intro to Diesel Engines Lab	3
DST 115	Intro to Diesel Fuel Systems	5
ATDI 134	Electrical/Electronic Sys I	6
DST 204	Intro to Hydraulics Pneumatics	2
DST 214	Intro to Hydr Pneumatics Lab	2
ATDI 264	Electrical/Electronic Sys II	6
DST 216	Heavy Duty Power Trains	4
DST 498	Cooperative Education	4
DST 264	Diesel Engine Diagnosis Repair	3
DST 274	Diag Diesel Engine Repair Lab	3
ACTG 201	Principles of Fin Acct	3
BGEN 253	Business Statistics & Research	3
ACTG 202	Principles of Mang Acct	3
ATDI 265	Heating and Air Conditioning	4
ATDI 384	AT/DI Elctrcl/Elctrn Sys III	4

BFIN 322	Business Finance	3
BMGT 335	Management & Organization	3
BMGT 322	Operations Management	3
BMGT 422	Project Management	3
BUS 348	Business Communications	3
BGEN 360	International Business (Meets CAT V Requirement)	3
DST 440	Advanced Fuel Systems	4
ACTG 410	Cost/Mgmt Acct I	3
DST 450	Diag Pwr Shifts and HD Atmtics	4
BMGT 329	Human Resource Management	3
TSCI 304	Fuels and Lubricants (Meets CAT III Requirement)	3
<b>Total Credits</b>		<b>120</b>