

COURSE TITLE: DIESEL & EQUIPMENT TECHNOLOGY

INSTRUCTOR: Zeb Niehof
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CLASS MEETING TIMES: 2020 - 2021 Class Schedule
Monday – Friday 8:00 am – 10:30 am **OR**
Monday – Friday 12:00 pm – 2:30 pm

TEXTBOOKS: Heavy Duty Trucks & Heavy Duty Diesel Engines
ISBN 9781284067057
ISBN-10: 978-1-284-04116-3

OTHER RESOURCES: Alldata Pro

REQUIRED MATERIALS: Pencil/pen, Safety glasses, work boots and long pants everyday

COURSE DESCRIPTION:

This program will give the student a theory and hand on approach in the field of Diesel & Equipment service. The day will start with being in the classroom and covering theory then into the lab to apply the learned theory with hands on tasks and projects.

ACADEMIC CREDITS:

Students who take Diesel & Equipment Technology course can earn credits for the fourth required math credit, a third credit of science, a visual performing and applied arts credit and/or may substitute this CTE class in place of a second year of foreign language. Local district policy and other circumstances may limit or expand the use of CTE classes in place of other credit requirements. Additional info, if necessary here...

POSTSECONDARY CONNECTIONS

The MACC offers students with a B or better each semester the opportunity to earn articulated credits at several community colleges and universities around the state. Ferris offers articulated credits at . Additional information can be found on our website or by talking with the instructor.

CERTIFICATIONS/LICENSURES: ASE Student Certification Tests - Seniors who are classified as a completer or concentrator and have a C average or better will take these tests.

State of Michigan Mechanics Tests - The MACC will pay the testing fee for students who have at least a 90% attendance record for each segment, a B average in each segment, and a B testing average in each segment. Students may elect to pay for the segment State test if they do not meet the aforementioned criteria. A segment review led by the instructor is mandatory for each student who elects to take the segment State test.

WORK-BASED LEARNING OPPORTUNITIES:

The Diesel & Equipment class will go on class trips to industry related job sites for guided tours of facilities, operations, job requirements, ect. When there is a job related to the Diesel & Equipment field a work-based opportunitie might work. Qualifications would include, but not limited to, student transportation ability, students level of competence for job position, is the student a self starter, attendance and GPA.

SAFETY TRAINING:

All students go through safety training at the beginning of the school year and is revisited as we go into new segments.

STUDENT LEADERSHIP OPPORTUNITIES:

All students are shop foreman for a week and help with the toolroom. Some students will be asked to help with other events to promote or represent the program.

OBJECTIVES:

2019-2020 IMMR Segments

- Segment 1 – Shop Practice & Safety
- Segment 2 – Management/Technology
- Segment 3 – Leadership and Employability Skills
- Segment 4 – Diesel Engine I (A-E)
- Segment 5 – Diesel Engine II (F-H)
- Segment 6 – Drive Train
- Segment 7 – Air Brakes
- Segment 8 – Hydraulic Brakes
- Segment 9 – Suspension and Steering
- Segment 10 – Electrical / Electronic Systems
- Segment 11 – HVAC and Cab
- Segment 12 – Hydraulics

GRADING CRITERIA:

Grades will be based on the following categories: Assessments, Lab work and Written assignments

Grading Scale:

A	93 – 100%
A-	90 – 92%
B+	87 – 89%
B	83 – 86%
B-	80 – 82%
C+	77 – 79%

C	73 – 76%
C-	70 – 72%
D+	67 – 69%
D	63 – 66%
D-	60 – 62%
F	59% and below

ASSIGNMENTS:

Assignments include weekly classroom and lab work.

CRITERIA FOR CONSIDERATION FOR 2ND YEAR:

The Diesel & Equipment Technology program is a two year program. Juniors must apply if they wish to return for the 2nd year of the program.

ACADEMIC INTEGRITY:

All students are expected to be honest in their studies. Dishonesty in completing assignments, examinations or other academic endeavors is considered an extremely serious violation of the rights of others and is subject to disciplinary action, ranging from a zero on an assignment up to a failing grade in the course. Plagiarism, the failure to give credit for ideas, thoughts or material taken from another, is cheating and will not be tolerated. Plagiarism includes using someone else's exact words, or even their ideas but not their exact words. It is a good rule of thumb that if you did not know the information before you started the assignment, you must cite your source.

ADA STATEMENT:

It is the policy of Montcalm Area Intermediate School District that no person shall be subjected to discrimination in any educational program, service, or activity that it provides, nor in any employment for which it is responsible. As such, MAISD and its Board of Education does not discriminate on the basis of race, color, national origin, sex (including sexual orientation or transgender identity), disability, age, religion, military status, ancestry, or genetic information. Inquiries related to discrimination should be directed to the MAISD Superintendent at 621 New Street, PO Box 367, Stanton MI 48888 or phone at 989-831-5261.