

Diesel Heavy Equipment Master Technician

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 62

DEGREE CODE: DLS-AAS

DESCRIPTION

The Diesel/Heavy Equipment program prepares students to enter the workforce as technicians to maintain, diagnose, and repair heavy equipment. The program focuses both on over the road trucks as well as diesel powered heavy equipment typically used in the construction industry. Students will learn diesel engine and propulsion systems, fuel management systems, related accessory components, hydraulics, and HVAC. All students will be prepared to take ASE certification exams at the completion of the appropriate course.

STUDENT LEARNING OUTCOMES

- Prepare for employment in the Diesel Technology Industry as a Certified Technician.
- Prepare to take the following ASE/NATEF certification exams: ASE T2, ASE T3, ASE T4, ASE T5, ASE T6, ASE T7.
- Prepare for the IMACA refrigerant handling certification.
- Pass the SP2 safety and pollution prevention certification.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (22 CREDITS)

MATHEMATICS (3 credits)

Recommended: MATH 104B Applied Mathematics

ENGLISH COMPOSITION (3-5 credits)

Recommended: ENG 107 Technical Communications I

COMMUNICATIONS (3 credits)

Recommended: COM 115 Applied Communication

HUMAN RELATIONS (3 credits)

Recommended: ALS 101 College Success

NATURAL SCIENCE (3 credits)

Recommended: AST 101 General Astronomy

FINE ARTS/HUMANITIES/ SOCIAL SCIENCE (3 credits)

Recommended: COM 101 Oral Communication

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

Recommended: PSC 101 Introduction to American Politics

SPECIAL PROGRAM REQUIREMENTS (40 CREDITS)

DT 104	Diesel Equipment Service	4
DT 115	Diesel/Heavy Equipment Electrical Systems	4
DT 117	Advanced Diesel/Heavy Equipment Electronics	4
DT 136	Diesel Engine Repair I	4
DT 138	Diesel Engine Repair II	4
DT 145	Diesel Brake Systems	4
DT 150B	Diesel Hydraulics	4
DT 155	Steering, Suspension and Directional Controls	4
DT 165	Diesel/Heavy Equipment Heating and Air Conditioning	4
DT 205	Diesel/Heavy Equipment Drive Train and Axles	4

FULL-TIME STUDENT DEGREE PLAN

Plan can be modified to fit the needs of part-time students by adding more semesters.

FIRST SEMESTER	Credits
MATH 104B Applied Mathematics	3
ALS 101 College Success	3
DT 104 Diesel Equipment Service	4
DT 115 Diesel/Heavy Equipment Electrical Systems ¹	4
DT 117 Advanced Diesel/Heavy Equipment Electronics ²	4
TOTAL CREDITS	18

SECOND SEMESTER	Credits
ENG 107 Technical Communications I	3
DT 136 Diesel Engine Repair I	4
DT 138 Diesel Engine Repair II ³	4
DT 165 Diesel Heavy Equipment Heating and Air Conditioning	4
TOTAL CREDITS	15

THIRD SEMESTER	Credits
COM 115 Applied Communication	3
AST 101 General Astronomy	3
DT 145 Diesel Brake Systems	4
DT 155 Steering, suspension and Directional Controls	4
TOTAL CREDITS	14

FOURTH SEMESTER	Credits
COM 101 Oral Communication	3
PSC 101 Introduction to American Politics	4
DT 150B Diesel Hydraulics	4
DT 205 Diesel/Heavy Equipment Drive Train and Axles	4
TOTAL CREDITS	15

DEGREE PLAN TOTAL CREDITS.....**62**

¹Prerequisite DT 104. Contact Department of Applied Technologies to receive permission to complete these courses in the same semester.

²Prerequisite DT 115 or Instructor approval. Contact the Department of Applied Technologies to receive permission to complete these courses in the same semester.

³Prerequisite DT 136 or Instructor approval. Contact the Department of Applied Technologies to receive permission to complete these courses in the same semester.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

