



DIESEL HYDRAULICS TECHNOLOGY



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PROGRAM PURPOSE

Diesel hydraulics technology is a two-year program emphasizing the basic principles of mechanics, building on mechanical aptitude and knowledge of the eight areas of medium/heavy truck systems. These areas include preventative maintenance, brakes, diesel engine diagnosis and tune-up, suspension and steering, drive train, electrical/electronics systems and heating ventilation and A/C. In the first semester, students concentrate on preventative maintenance, engine diagnostics and tune up and electricity fundamentals. Coursework in the spring semester includes brakes, suspension and steering and electrical systems. Specialization in diesel hydraulics, hydraulic systems test and repairs, diesel engine rebuilding, electronic controls and heating/air conditioning round out the second year.



The Diesel Hydraulics Technology program has achieved Master Level certification by the National Institute for Automotive Excellence (ASE) after a thorough evaluation by the National Automotive Technicians Education Foundation (NATEF).

The program recently acquired equipment to educate students in green technology options.

CAREER OPPORTUNITIES

Graduates of the diesel hydraulics technology program may find employment as technicians with:

- construction companies
- logging companies
- farm machinery dealers
- heavy equipment dealers
- farm operations.

Capable graduates can advance into management positions.

Fantastic internships are available with industry leading companies.

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APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. Submit an NMCC application along with a \$20 application fee.
2. Submit official high school transcript and/or HiSET/GED scores (current senior's transcript should include completed ranking period grades).
3. Official college transcripts for applicants who have attended other post-secondary schools.
4. If SAT scores are not available, placement testing will be required.
5. Individual interview required and campus tour is highly recommended.

Work with real customers including local fleets, farms, and construction companies!

Questions contact: admissions@nmcc.edu

Explore our programs by downloading the NMCC mobile app. at any app. store.

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DIESEL HYDRAULICS TECHNOLOGY

2019-2020 Curriculum

Associate in Applied Science Degree Program

First Semester		C	L	CR
♦ AUT 115	Automotive Electricity	2	2	3
COL 103	College Success	1	0	1
♦ DIM 112	Intro to Diesel Hydraulics	3*	9*	3
♦ DIM 114	Engine Diagnosis/Tune-up	3*	9*	3
ENG 111	English Composition	3	0	3
SAE 121	Industrial Safety	3	0	3
		12	11	16

Second Semester

♦ AUT 125	Automotive Electronics	2	2	3
♦ DIM 122	Heavy Equipment/ Electrical Systems	3*	9*	3
♦ DIM 123	Brake Systems	3*	9*	1.5
♦ DIM 125	Suspension/Steering Sys.	3*	9*	1.5
MAT 119	Applied Mathematics	4	0	4
WEI 101	Intro. to Welding	2	2	3
		11	13	16

Third Semester

♦ AUT 229	Auto Heating and AC	2	2	3
♦ DIM 211	Hydraulics Technology	3*	9*	3
♦ DIM 213	Diesel Engine Rebuilding	3*	9*	3
PHY 150	Physics	3	2	4
WEI 133	Electric Welding	2	2	3
	Social Science Elective	3	0	3
		13	15	19

Fourth Semester

AUT 216	Motor Vehicle Inspection	2	0	2
♦ DIM 221	Drive Train Systems	3*	9*	3
♦ DIM 222	Air Conditioning Systems/ Transport Refrigerations	3*	9*	3
COM 221	Technical Communications	3	0	3
	Humanities Elective	3	0	3
	Elective	3	0	3
		14	9	17

TOTAL REQUIRED 68

Certificate Program

First Semester		C	L	CR
♦ AUT 115	Automotive Electricity	2	2	3
♦ DIM 112	Intro to Diesel Hydraulics	3*	9*	3
♦ DIM 114	Engine Diagnosis/Tune-up	3*	9*	3
ENG 111	English Composition	3	0	3
SAE 121	Industrial Safety	3	0	3
		11	11	15

Second Semester

♦ AUT 125	Automotive Electronics	2	2	3
♦ DIM 122	Heavy Equipment/ Electrical Systems	3*	9*	3
♦ DIM 123	Brake Systems	3*	9*	1.5
♦ DIM 125	Suspension/Steering Sys.	3*	9*	1.5
MAT 119	Applied Mathematics	4	0	4
WEI 101	Intro. to Welding	2	2	3
		11	13	16

TOTAL REQUIRED 31

♦ Major courses; a minimum grade of "C" or 2.0 required.

*Note: DIM courses within a semester are scheduled sequentially, not concurrently.

NMCC is an equal opportunity/affirmative action institution and employer. For more information, please call 768-2791.

Key: C= Class Hours, L= Lab Hours, CR= Credit Hours

207-768-2785

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