DIESEL HYDRAULICS TECHNOLOGY

CAREER OPPORTUNITIES

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

- Construction companies
- Forestry companies
- Transportation companies
- Heavy equipment dealers
- Agriculture operations
- Agriculture, construction, and forestry machinery dealers

Capable graduates can advance into management positions.

NORTHERN MAINE COMMUNITY COLLEGE

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HIGH DEMAND FIELD!

Questions?

Contact:
admissions@nmcc.edu

APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. Submit an NMCC application.
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 may be required.
5. Meet with an Admissions Counselor.
6. A campus tour is highly recommended.

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/electronic 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).

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DIESEL HYDRAULICS TECHNOLOGY
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**	**Introduction to Diesel Hydraulics***	**3**	**9**	**3**
>	**DIM**	**114**	**Engine Diagnosis / Tune-up***	**3**	**9**	**3**
	ENG	111	English Composition	3	0	3
	WEI	101	Introduction to Welding	2	2	3
				14	13	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 Systems***	**3**	**9**	**1.5**
	MAT	121	Technical Mathematics	4	0	4
	SAE	121	Industrial Safety	3	0	3
	WEI	133	Electric Welding	2	2	3
				14	14	19

Third Semester						
	AUT	**229**	**Automotive Heating & Air Conditioning**	**2**	**2**	**3**
>	**DIM**	**211**	**Hydraulics Technology***	**3**	**9**	**3**
>	**DIM**	**213**	**Diesel Engine Rebuilding***	**3**	**9**	**3**
	PHY	150	Physics	3	2	4
			Social Science Elective	3	0	3
				14	22	16

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

Total Required **68**

DIESEL HYDRAULICS TECHNOLOGY
Certificate Program

First Semester				C	L	CR
>	**AUT**	**115**	**Automotive Electricity**	**2**	**2**	**3**
	COL	103	College Success	1	0	1
>	**DIM**	**112**	**Introduction to Diesel Hydraulics***	**3**	**9**	**3**
>	**DIM**	**114**	**Engine Diagnosis / Tune-up***	**3**	**9**	**3**
	ENG	111	English Composition	3	0	3
	WEI	101	Introduction to Welding	1	6	3
				14	22	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 Systems***	**3**	**9**	**1.5**
	MAT	121	Technical Mathematics	4	0	4
	SAE	121	Industrial Safety	3	0	3
	WEI	113	Thin Metals Welding	2	2	3
				14	14	19

Total Required **35**

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

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

> Major courses; a minimum grade of "C" or 2.0 is required

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

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