



PLUMBING & HEATING TECHNOLOGY



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PROGRAM PURPOSE

Plumbing and heating is a two-year program providing instruction in all phases of repair, maintenance, and installation of plumbing and heating equipment. The first year of the program is spent in the plumbing lab learning to work with several types of pipes including copper, steel and plastic. Plumbing fundamentals will be emphasized along with water pump systems and domestic water systems. In the second year, students study the fundamentals for warm air and hydronic heating systems including system design, sizing and troubleshooting. They will become involved in the hands-on practice of installation, maintenance and adjustment of equipment, as well as the wiring of electrical components of oil and propane burners, including troubleshooting, testing and adjusting. Students also gain experience in alternative heating systems including solar thermal, heat pumps and biomass. The program prepares students for several certifications and licenses in the fields of plumbing, heating, propane and refrigerant handling.

Graduates have the opportunity to sit for their Journeyman's license exam right after graduation.

CAREER OPPORTUNITIES

Completion of the plumbing program gives graduates eligibility to take the Journeyman Plumbing examination. Graduates of the heating program may be eligible to take the Journeyman Oil Burner License examination.

Graduates qualify as technicians in plumbing, heating and water pump service. They will also find employment opportunities with:

- plumbing and heating contractors
- maintenance workers
- plumbing and heating draft persons
- plumbing and heating warehouse workers and salespersons.

Additional experience may provide opportunities as managers, supervisors or business owners.

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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 may be required.
5. Individual interview required.
6. A campus tour is highly recommended.

Individuals with felony convictions may not be able to obtain licensure in certain professions.

Questions? Contact admissions@nmcc.edu

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PLUMBING & HEATING

2020-2021 Curriculum

Associate in Applied Science Degree Program

<u>First Semester</u>		C	L	CR
COL 103	College Success	1	0	1
ENG 111	English Composition	3	0	3
◆ PLH 101	Plumbing Technology	3	0	3
◆ PLH 109	Plumbing Lab I	0	9	3
◆ PLH 113	Pipefitting Calculations	3	0	3
SAE 117	Occupational Safety	1	0	1
		11	9	14

<u>Second Semester</u>		C	L	CR
DRR 117	Blueprint Read for Const Trades	2	2	3
MAT 119	Applied Mathematics	4	0	4
◆ PLH 122	Plumbing Code Review	3	0	3
◆ PLH 123	Plumbing Lab II	0	9	3
◆ PLH 126	Water Pumps and Treatment	1	2	2
		10	13	15

<u>Third Semester</u>		C	L	CR
PHY 150	Physics	3	2	4
◆ PLH 211	Heating I	3	9	6
◆ PLH 212	Refrigeration & Air Conditioning	1	3	2
◆ PLH 216	Propane & Natural Gas I	2	2	3
	Humanities Elective	3	0	3
		12	18	18

<u>Fourth Semester</u>		C	L	CR
COM 221	Technical Communications	3	0	3
◆ PLH 213	Solid Fuel Equipment	1	3	2
◆ PLH 219	Propane & Natural Gas II	2	2	3
◆ PLH 222	Heating II	2	9	5
◆ PLH 225	Maine Oil/Solid Fuel Code I	1	0	1
	Social Science Elective	3	0	3
		12	14	17

TOTAL REQUIRED **64**

Plumbing Certificate Program

<u>First Semester</u>		C	L	CR
ENG 111	English Composition	3	0	3
◆ PLH 101	Plumbing Technology	3	0	3
◆ PLH 109	Plumbing Lab I	0	9	3
◆ PLH 113	Pipefitting Calculations	3	0	3
SAE 117	Occupational Safety	1	0	1
		10	9	13

<u>Second Semester</u>		C	L	CR
DRR 117	Blueprint Read for Const Trades	2	2	3
MAT 119	Applied Mathematics	4	0	4
◆ PLH 122	Plumbing Code Review	3	0	3
◆ PLH 123	Plumbing Lab II	0	9	3
◆ PLH 126	Water Pumps and Treatment	1	2	2
		10	13	15

TOTAL REQUIRED **28**

Heating - Certificate Program

<u>First Semester</u>		C	L	CR
ENG 111	English Composition	3	0	3
◆ PLH 211	Heating I	3	9	6
◆ PLH 212	Refrigeration & Air Conditioning	1	3	2
◆ PLH 216	Propane & Natural Gas I	2	2	3
		9	14	14

<u>Second Semester</u>		C	L	CR
MAT 119	Applied Mathematics	4	0	4
◆ PLH 213	Solid Fuel Equipment	1	3	2
◆ PLH 219	Propane & Natural Gas II	2	2	3
◆ PLH 222	Heating II	2	9	5
◆ PLH 225	Maine Oil/Solid Fuel Code I	1	0	1
		10	14	15

TOTAL REQUIRED **29**

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

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

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

207-768-2785

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