

PLUMBING & HEATING TECHNOLOGY

CAREER OPPORTUNITIES

Graduates qualify as technicians in the HVAC trades.
They will find employment opportunities with:

- Plumbing and heating contractors
- Maintenance positions
- Plumbing, heating and HVAC sales.
- Refrigeration and air conditioning positions

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



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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

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 distribution. In the second year, students study the fundamentals of both propane and oil heating systems including system design, sizing and troubleshooting. Individuals will be 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 heat pumps. The program prepares students for several certifications and licenses in the fields of plumbing, heating, propane and refrigeration.

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.

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PLUMBING & HEATING

2023-2024

Associate in Applied Science Degree Program

First Semester			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

Second Semester			C	L	CR
DRR	117	Blueprint Reading for Construction Trades	2	2	3
MAT	121	Technical Mathematics	4	0	4
> PLH	122	Plumbing Code Review	3	0	3
> PLH	123	Plumbing Lab II	0	9	3
> PLH	126	Water Pumps & Treatment	1	2	2
			10	13	15

Third Semester			C	L	CR
PHY	150	Physics	3	2	4
> PLH	209	HVAC Controls	1	2	2
> PLH	214	Heating Technology I	3	0	3
PLH	216	Propane & Natural Gas I	2	2	3
PLH	218	Heating Lab I	0	9	3
		Humanities Elective	3	0	3
			12	15	18

Fourth Semester			C	L	CR
COM	221	Technical Communications	3	0	3
> PLH	219	Propane & Natural Gas II	2	2	3
> PLH	223	Heating Lab II	0	9	3
> PLH	227	Maine Oil / Solid Fuel Code I	3	0	3
> PLH	226	Refrigeration & Air Conditioning	1	2	2
		Social Science Elective	3	0	3
			12	13	17

Total Required 64

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

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

PLUMBING

2023-2024

Certificate Program

First Semester			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

Second Semester			C	L	CR
DRR	117	Blueprint Reading for Construction Trades	2	2	3
MAT	121	Technical Mathematics	4	0	4
> PLH	122	Plumbing Code Review	3	0	3
> PLH	123	Plumbing Lab II	0	9	3
> PLH	126	Water Pumps & Treatment	1	2	2
			10	13	15

Total Required 28

Must have completed the Plumbing Certificate Program or permission of the instructor to enroll in this certificate program.

HEATING

2023-2024

Certificate Program

First Semester			C	L	CR
ENG	111	English Composition	3	0	3
> PLH	209	HVAC Controls	1	2	2
> PLH	214	Heating Technology I	3	0	3
> PLH	216	Propane & Natural Gas I	2	2	3
> PLH	218	Heating Lab I	0	9	3
			9	13	14

Second Semester			C	L	CR
MAT	121	Technical Mathematics	4	0	4
> PLH	219	Propane & Natural Gas II	2	2	3
> PLH	223	Heating Lab II	0	9	3
> PLH	226	Refrigeration & Air Conditioning	1	2	2
> PLH	227	Maine Oil / Solid Fuel Code I	3	0	3
			10	13	15

Total Required 29

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

2023-2024