

## 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 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 Journeymen Plumbing examination. Graduates of the heating program may be eligible to take the Journeyman Oil Burner License examination.

## CAREER OPPORTUNITIES

Graduating from a Plumbing and Heating program opens the door to a wide range of stable and rewarding career opportunities. The demand for qualified plumbers and heating technicians is high, offering excellent job security and competitive salaries. Graduates qualify as technicians in the HVAC trades. Employment opportunities include:

- 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.



## APPLICATION PROCEDURE

*The following procedures constitute the admissions process:*

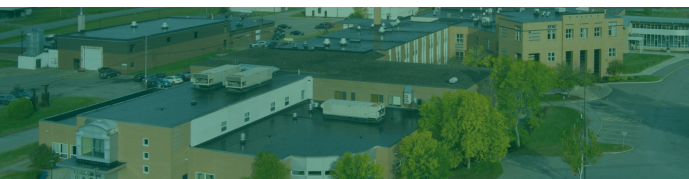
- 1 Submit an NMCC application.  
Submit official high school transcript and/or HiSET/GED scores (current senior's ranking period grades).
- 2 Official college transcripts for applicants who have attended other post-secondary schools.
- 3 If SAT scores are not available, placement testing may be required.
- 4 Meet with an Admissions Counselor.
- 5 A campus tour is highly recommended.

## GET IN TOUCH

207-768-2785

[www.nmcc.edu](http://www.nmcc.edu)  
[nmccadmissions@maineccc.edu](mailto:nmccadmissions@maineccc.edu)

33 Edgemont Drive  
Presque Isle, ME 04769



## PLUMBING & HEATING

2024-2025

Associate in Applied Science Degree Program

First Semester			C	L	CR
ENG 111	(ENGL 101)	English Composition	3	0	3
>	PLH 101	(PLUM 101) Plumbing Technology	3	0	3
>	PLH 109	(PLUM 109) Plumbing Lab I	0	9	3
>	PLH 113	(PLUM 113) Pipefitting Calculations	3	0	3
	SAE 117	(OSHA 117) Occupational Safety	1	0	1
		Gen Ed Elective	3	0	3
			<b>13</b>	<b>9</b>	<b>16</b>

Second Semester			C	L	CR
	DRR 117	(DRFT 117) Blueprint Reading for Construction Trades	2	2	3
	MAT 122	(MATH 130) Technical Mathematics	2	2	3
>	PLH 122	(PLUM 122) Plumbing Code Review	3	0	3
>	PLH 123	(PLUM 123) Plumbing Lab II	0	9	3
>	PLH 126	(PLUM 126) Water Pumps & Treatment	1	2	2
			<b>8</b>	<b>15</b>	<b>14</b>

Third Semester			C	L	CR
	PHY 150	(PHYS 110) Physics	3	2	4
>	PLH 209	(HVAC 209) HVAC Controls	1	2	2
>	PLH 214	(HVAC 214) Heating Technology I	3	0	3
>	PLH 216	(HVAC 216) Propane & Natural Gas I	2	2	3
>	PLH 218	(HVAC 218) Heating Lab I	0	9	3
		Humanities Elective	3	0	3
			<b>12</b>	<b>15</b>	<b>18</b>

Fourth Semester			C	L	CR
	COM 221	(COMM 201) Technical Communications	3	0	3
>	PLH 219	(HVAC 219) Propane & Natural Gas II	2	2	3
>	PLH 223	(HVAC 223) Heating Lab II	0	9	3
>	PLH 226	(HVAC 226) Refrigeration & Air Conditioning	1	2	2
>	PLH 227	(HVAC 227) Maine Oil/Solid Fuel Code I	3	0	3
		Social Science Elective	3	0	3
			<b>12</b>	<b>13</b>	<b>17</b>

**Total Required** **65**

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

Key: C=Class hours; L=Laboratory; CR=Credit hours

## PLUMBING

2024-2025

Certificate Program

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

Second Semester			C	L	CR
	DRR 117	(DRFT 117) Blueprint Reading for Construction Trades	2	2	3
	MAT 122	(MATH 130) Technical Mathematics	2	2	3
>	PLH 122	(PLUM 122) Plumbing Code Review	3	0	3
>	PLH 123	(PLUM 123) Plumbing Lab II	0	9	3
>	PLH 126	(PLUM 126) Water Pumps & Treatment	1	2	2
			<b>8</b>	<b>15</b>	<b>14</b>

**Total Required** **27**

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

## Heating 2024-2025 Certificate Program

First Semester			C	L	CR
	ENG 111	(ENGL 101) English Composition	3	0	3
>	PLH 209	(HVAC 209) HVAC Controls	1	2	2
>	PLH 214	(HVAC 214) Heating Technology I	3	0	3
>	PLH 216	(HVAC 216) Propane & Natural Gas I	2	2	3
>	PLH 218	(HVAC 218) Heating Lab I	0	9	3
			<b>9</b>	<b>13</b>	<b>14</b>

Second Semester			C	L	CR
	MAT 122	(MATH 130) Technical Mathematics	2	2	3
>	PLH 219	(HVAC 219) Propane & Natural Gas II	2	2	3
>	PLH 223	(HVAC 223) Heating Lab II	0	9	3
>	PLH 226	(HVAC 226) Refrigeration & Air Conditioning	1	2	2
>	PLH 227	(HVAC 227) Maine Oil/Solid Fuel Code I	3	0	3
			<b>8</b>	<b>15</b>	<b>14</b>

**Total Required** **28**

