

Program Name	Apprenticeship Housing Maintainer	
Program Number	745	

Program Description

The Apprenticeship Housing Maintainer program is designed to train apprentices to perform preventative and on-demand maintenance, minor repairs, and modernization improvements on existing physical structures and components of buildings. Due to the nature of the work of housing maintainers, safety is taught on a continuous basis throughout this program.

This program outline is based on the Housing Maintainer Apprenticeship Occupational Standards and DACUM (2008) from the Department of Education, Apprenticeship and Occupational Certification section.

The goal of apprenticeship training is to develop a competent journey person through a combination of on-the-job and technical training. The Apprenticeship Housing Maintainer program at Nunavut Arctic College provides the technical training components for each of the three levels or years required. Each technical training component is eight weeks long.

Successful completion of this program and the requisite examinations will lead to Journey person certification.

Apprentices must complete 5400 hours of technical and on-the-job training (approximately 1800 hours per year). The on-the-job training may be supervised by journeypersons from a variety of eligible trades including housing maintainer, oil burner mechanic, gasfitter, power engineer, plumber, and carpenter. The eligible trades vary for each level, depending on the topics covered.

STUDENT RECORDS SYSTEM	
P & P Motion #	_____
B of G Motion #	_____
Date Approved	_____
Date Deactivated	_____

Inuit Qaujimaningit

Students in the program will develop the required competencies to meet industry standards for Housing Maintainers. Although much of the curriculum is prescribed by the Apprenticeship system, presentation of program content will draw heavily on the Inuit concept of Pilimmaksarniq: development of skills through practice, effort, action and patience. Instructors will seek to balance instructional methods through the use of learning labs and project-based learning assignments, in addition to conventional lectures. Instructors will also promote an environment of inclusive participation through open dialogue and continuous feedback throughout the program drawing on the Inuit concept of Tunnganarniq. This instructional strategy draws upon a collaborative approach among students by forming working relationships with each other to collectively solve problems as they strive toward a common goal. Inuktitut will be the language of instruction wherever possible.

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Employment Opportunities

Completion of this program to Journeyperson status provides employment opportunities throughout Nunavut and Northwest Territories for maintenance of residential and small commercial buildings. Major employers are Housing Authorities, Hamlets, Mining Sites and Private Contractors.

Program Eligibility

Applicants to this program must be registered as housing maintainer apprentices with the Department of Education, Apprenticeship and Occupational Certification section.

Applicant Assessment

All applicant assessment is conducted by the Apprenticeship and Occupational Certification section of Department of Education. Service is accessed through a local Education Career Service Centre. Anyone wishing to become an apprentice must:

- be at least 16 years of age
- be physically capable of performing the work involved in the housing maintainer trade
- have a genuine desire to become a good tradesperson
- find a suitable employer, who holds a journeyperson certification in the relevant trades for the period (or employs the holder of a journeyperson certificate in the relevant trades) and who is willing to hire and train the applicant. The relevant trades are listed below:

	Eligible Supervising Trades
Period One	housing maintainer, oil burner mechanic, gasfitter, power engineer
Period Two	housing maintainer, plumber, gasfitter, power engineer
Period Three	housing maintainer, carpenter

The applicant must also be able to achieve a pass mark of 70% on the appropriate Trade Entrance Exam, Cluster #2.

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Program Admission

Applicants will be admitted to this program based on the eligibility requirements set by the Apprenticeship division of the Department of Education.

Program Information

The Apprenticeship Housing Maintainer program is designed to train apprentices to perform preventative and on-demand maintenance, minor repairs, and modernization improvements on existing physical structures and components of buildings. These buildings include individual dwelling units, multi-residential units, small shops and administrative buildings with individual heating units not exceeding 400,000 BTUs.

Note: Students are responsible for ensuring that they attend classes equipped with Personal Protective Equipment. This includes:

- Safety Boots (CSA Approved)

College will supply:

- Protective Eyewear (CSA Approved)
- Ear Protection (CSA Approved)

Program Objectives

The objectives of this program are to enable participants to carry out the tasks required of a housing maintainer in a competent and safe manner. Successful completion of this program, along with the other apprenticeship requirements as described in the document entitled *Housing Maintainer Trades and Occupations Descriptions and Guidelines*, will lead to certification as a journey person housing maintainer.

There are 22 courses in three-year housing maintainer program. The objectives of each course can be found in individual course outlines.

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Completion Requirements

Students must successfully complete all components of this program including theory and the skill-based shop portion of the program.

Assignments, shop projects, and written exams will be used to evaluate student progress. Instructors submit marks for each course to the Department of Apprenticeship and Occupational Certification as it is completed. For a list of courses in the Housing Maintainer Program, see the table below.

Students must achieve an overall mark of at least 65% on each course to pass this program. A credit pass for a course may be awarded under certain conditions.

Document of Recognition

Completion of Apprenticeship Certificate and a Certificate of Qualification at the Journeyman level issued by Department of Education

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Length:

Core Courses

Yr	Number	Course / Module Name	Credits	Cr Hrs	Semester
1	745-151	Safety I		12	
1	745-152	Tools and Equipment I		12	
1	745-153	Trade Foundations I		23	
1	745-154	Heating I		160	
1	745-155	Electrical		33	
		Subtotal		240	
2	745-251	Safety II		6	
2	745-252	Tools and Equipment II		6	
2	745-253	Trade Foundations II		19	
2	745-254	Heating II		100	
2	745-255	Plumbing		109	
		Subtotal		240	
3	745-351	Tools & Equipment III and Safety		26	
3	745-352	Carpentry-Planning		9	
3	745-353	Carpentry-Materials		10	
3	745-354	Carpentry-Concrete		10	
3	745-355	Carpentry-Foundations		20	
3	745-356	Carpentry-Framing		28	
3	745-357	Carpentry-Roofing		14	
3	745-358	Carpentry-Building Envelope		10	
3	745-359	Carpentry-Exterior Finishing		24	
3	745-360	Carpentry-Windows and Doors		27	
3	745-361	Carpentry-Interior Finishing		47	
3	745-362	Painting		15	
		Subtotal		240	
		TOTAL		720	

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Elective Courses

Yr	Number	Course / Module Name	Credits	Cr Hrs	Semester
		N/A			

Total Credits:

F:Fall

W:Winter

S:Spring

U:Summer

Prepared By:

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Date:

2009-09-22

Course Descriptions

First Year

745-151 Safety 1

This course provides instruction in safe work practices and the Workplace Hazardous Materials Information System (WHMIS).

745-152 Tools and Equipment 1

This course provides instruction in the tools used for heating work.

745-153 Trade Foundations 1

This course provides instruction in construction documents, including blueprints and specifications. It also provides instruction in math skills.

745-154 Heating 1

This course provides an introduction to heating systems with a focus on oil burners and warm-air appliances.

745-155 Electrical

This course provides instruction in basic electricity and how to perform basic electrical maintenance tasks.

745-156 Practical Applications

This course provides practical applications of learning concepts associated with this program. These practical applications are integrated into and included in the above course hours. Separate evaluations are required for theory and practical applications.

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Second Year

745-251 Safety II

This course provides instruction in safety legislation.

745-252 Tools and Equipment II

This course provides instruction in tools and equipment used for hydronic heating and plumbing work.

745-253 Trade Foundations II

This course provides instruction in the science concepts related heat, temperature, matter, density and volume.

745-254 Heating II

This course provides instruction in hydronic heating.

745-255 Plumbing

This course provides instruction in plumbing materials and installation and maintenance tasks.

Third Year

745-351 Tools & Equipment III and Safety

This course provides instruction in the purpose and safe use of tools and equipment used for carpentry work.

745-352 Carpentry – Planning

This course provides instruction in how to use construction documents to plan carpentry projects.

745-353 Carpentry – Materials

This course provides instruction in the materials used for carpentry construction and maintenance tasks.

745-354 Carpentry – Concrete

This course provides instruction in basic concrete work.

745-355 Carpentry – Foundations

This course provides instruction in different systems and construction methods used for foundations in the North.

745-356 Carpentry – Framing

This course provides instruction in framing floors, walls, roofs and ceilings.

~~745-357 Carpentry – Roofing~~

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This course provides instruction in the materials and methods used to apply different types of roof coverings.

745-358 Carpentry – Building Envelope

This course provides instruction in the purpose and installation of a building envelope.

745-359 Carpentry – Exterior Finishing

This course provides instruction in the application of siding and skirting, and the installation of stairs and ramps.

745-360 Carpentry – Windows and Doors

This course provides instruction in the installation of windows and doors and related hardware.

745-361 Carpentry – Interior Finishing

This course provides instruction in how to finish walls, ceilings, flooring, cabinets and tub surrounds.

745-362 Painting

This course provides instruction in the tools, materials and processes used for painting interior and exterior surfaces.