

# Certificate in Heating, Ventilation & Air Conditioning Technology CT-HVAC

## PROGRAMME OVERVIEW

Developed with the assistance of employers in this field, this competency-based programme usually takes two years to complete. Students will experience lectures, practical assignments, and self-directed activities as they proceed through the programme working with an instructor and being evaluated on a skills basis. In addition to instruction in the theoretical aspects of Heating, Ventilation and Air Conditioning repair, practical experience is an integral part of the programme. Graduates will be eligible to receive an industry-recognised certificate in HVAC from the National Centre for Construction Education and Research (NCCER) and also meet the Bermuda National Training Board standard for certification.

**Prerequisite:** NCCER Core (8CR)

*(Please see NCCER Courses on pg. 104)*

## CURRICULUM

**TOTAL CREDITS: 59**

### YEAR 1

#### First Semester - 14 credits

		Credits
CSC 1100	Learning Strategies for Student Success	1
ENG 0044	Communications for Industry I	3
MAT 0014 or TMM 1001	Preparatory College Mathematics I or Technical Math I	3
CSM 1101	Computer Skills Module	2
HVA 1101	Fundamentals of Heating and Cooling	5

#### Second Semester - 16 credits

ENG 0045	Communications for Industry II	3
MAT 0015 or TMM 1002	Preparatory College Mathematics II or Technical Math II	3
HVA 1102	Mechanical Maintenance	3
HVA 1103	HVAC Controls	3
HVA 1104	Refrigeration System Service	4

### YEAR 2

#### First Semester - 14 credits

HVA 1105	Senior Student Project I	2
HVA 1106	Troubleshooting Heating	3
HVA 2107	Troubleshooting Cooling	3
HVA 2108	Hydronics	2
TSM 1101	Technical Science I	4

#### Second Semester - 15 credits

HVA 2109	Senior Student Project II	2
HVA 2110	System Performance	3
HVA 2111	Energy Management	3
HVA 2112	System Design	3
TSM 1102	Technical Science II	4