

BUILDING/CONSTRUCTION TRADES

at

YORK TECHNICAL COLLEGE

RESIDENTIAL CARPENTRY CERTIFICATE PROGRAM

Program Description

This program prepares its students for a rewarding career in the carpentry trade. The courses are designed to teach students to safely operate hand and power tools. Students will also be trained to prepare work sites and will become skilled in foundation formwork, wall, floor and roof framing, and exterior trim. Students can expect an hourly wage that is well above average and the job opportunities are countless for trained carpenters in new construction, repair and remodeling. Employment statistics suggest that the outlook for trained carpenters is projected to remain excellent for years to come. The demand for the construction of larger homes, starter and second homes, as well as residential, business and industrial complexes should continue to remain promising.

Program Curriculum

SUGGESTED SEQUENCE OF COURSES

SPRING or FALL SEMESTER

	Class Hours	Lab Hours	Credit Hours
(1st Mini-Semester)			
AET 103 <i>International Building and Residential Codes</i>	3.0	0.0	3.0
BCT 105 <i>Tool Usage and Safety</i>	1.0	3.0	2.0
BCT 109 <i>Foundations, Floors and Walls</i>	4.0	3.0	5.0
BCT 112 <i>Construction Print Reading</i>	2.0	0.0	2.0
(2nd Mini-Semester)			
BCT 106 <i>Beginning Woodworking</i>	1.0	3.0	2.0
BCT 108 <i>Finish Trim</i>	1.0	3.0	2.0
BCT 206 <i>Roof Construction</i>	1.0	3.0	2.0
<i>Total Semester Hours</i>			18.0

If you would like to learn more about this new certificate program and other related career programs offered at York Technical College, please contact Mr. Richard Butler, Program Manager for Building/Construction Trades, at (803) 981-7366 or e-mail him at RButler@Yorktech.com.

BUILDING/CONSTRUCTION TRADES

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RESIDENTIAL/COMMERCIAL PLUMBING CERTIFICATE PROGRAM

Program Description

Skilled plumbers are in demand for new construction, existing structures, and remodeling projects to install, repair, and service systems, piping, fixtures, and appliances. Plumbers work in a variety of environments: private homes, businesses, public buildings, power plants and water treatments.

Students will be trained to do essential plumbing skills --- from valves and faucets to water supply and storm drains. These courses can help students to enter the trade with confidence and supply them with a basic understanding of current plumbing technology. Job openings for plumbers, pipefitters, pipelayers, and related fields are projected to outnumber qualified workers and the majority of work in this field is new construction. Salaries for plumbers, however, will vary depending on the level of responsibility and the plumber's area of expertise. Specialization and experience can lead to higher potential income.

Program Curriculum

SUGGESTED SEQUENCE OF COURSES *SPRING or FALL SEMESTER*

	Class Hours	Lab Hours	Credit Hours
(1st Mini-Semester)			
<i>BCT 105 Tool Usage and Safety</i>	1.0	3.0	2.0
<i>BCT 112 Construction Print Reading</i>	2.0	0.0	2.0
<i>BCT 150 Plumbing</i>	3.0	6.0	5.0
(2nd Mini-Semester)			
<i>BCT 154 Plumbing Tests and Connections</i>	2.0	3.0	3.0
<i>BCT 221 Construction Building Code</i>	3.0	0.0	3.0
<i>Total Semester Hours</i>			18.0

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RESIDENTIAL/COMMERCIAL WIRING CERTIFICATE PROGRAM

Program Description

Consider an exciting career as an electrical worker in residential and commercial properties. This certificate program teaches students the required entry-level skills to prepare them for the eventual advancement to journeyman or a master electrician --- and an excellent income potential. The nature of this program requires significant hands-on training.

The program includes topics such as DC/AC theories; proper selection and use of power and hand tools; use of blueprints; National Electrical Code (NEC) in-depth study; wiring techniques; and electrical maintenance procedures. There is a high demand for trained electrical workers in maintaining, repairing and installing electrical wiring systems in homes, office buildings, factories and other structures. Job opportunities are projected to remain very good.

Program Curriculum

SUGGESTED SEQUENCE OF COURSES *FALL or SPRING SEMESTER*

		Class Hours	Lab Hours	Credit Hours
(1st Mini-Semester)				
BCT 105	Tool Usage and Safety	1.0	3.0	2.0
BCT 112	Construction Print Reading	2.0	0.0	2.0
EEM 105	Basic Electricity	2.0	0.0	2.0
EEM 141	Residential/Commercial Codes	3.0	0.0	3.0
(2nd Mini-Semester)				
BCT 141	Fixtures and Installation	2.0	3.0	3.0
EEM 165	Residential/Commercial Wiring	2.0	6.0	4.0
<i>Total Semester Hours</i>				16.0

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HEATING/VENTILATION/AIR CONDITIONING CERTIFICATE PROGRAM

Program Description

Maintaining proper air quality and a comfortable temperature inside every office, industrial building, home, and school is a necessity. Ensuring food, medicine, and other perishables are safely refrigerated and controlled is also imperative. Those are just a couple of the reasons why the need for trained technicians who know how to install, repair or service air conditioning, heating and refrigeration systems is expected to grow faster than the average for all occupations through this decade. Earning one or all of these certificates can be the starting point of a very satisfying career, which promises to pay higher than average hourly wages.

Program Curriculum

SUGGESTED SEQUENCE OF COURSES ANY SEMESTER

	<i>Class Hours</i>	<i>Lab Hours</i>	<i>Credit Hours</i>
HVAC Installer Certificate			
<i>(1st Mini-Semester)</i>			
ACR 102 – Tools and Service Techniques	2.0	3.0	3.0
ACR 150 – Basic Sheetmetal	1.0	3.0	2.0
ACR 224 – Codes and Ordinances	2.0	0.0	2.0
EGT 133 – HVAC Print Reading	3.0	0.0	3.0
<i>(or 2nd Mini-Semester)</i>			
ACR 224 – Codes and Ordinances	2.0	0.0	2.0
EGT 133 – HVAC Print Reading	3.0	0.0	3.0
<i>Total Credit Hours</i>			10.0
HVAC Service Technician Certificate			
<i>(1st Mini-Semester)</i>			
ACR 108 – Refrigeration Fundamentals	2.0	3.0	3.0
ACR 110 – Heating Fundamentals	3.0	3.0	4.0
<i>(</i>			
<i>2nd Mini-Semester)</i>			
ACR 120 – Basic Air Conditioning	3.0	3.0	4.0
ACR 210 – Heat Pumps	3.0	3.0	4.0
<i>Total Credit Hours</i>			15.0
HVAC System Design Certificate			
ACR 220 Advanced Air Conditioning	3.0	3.0	4.0
ACR 221 Residential Load Calculations	2.0	0.0	2.0
EGR 110 Introduction to Computer Environment	3.0	0.0	3.0
<i>Total Credit Hours</i>			9.0

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BUILDING CONSTRUCTION MANAGEMENT CERTIFICATE PROGRAM

Program Description

The Building Construction Management Certificate Program will prepare students with entry level supervisory skills for careers in residential building construction. This program will target students with basic knowledge in one or more of the trades areas that require project management knowledge. The student will learn cost estimating, construction fundamentals, safety compliance, construction codes, and business strategies.

Program Curriculum

SUGGESTED SEQUENCE OF COURSES

FALL SEMESTER

(1st Mini-Semester)

	<i>Class Hours</i>	<i>Lab Hours</i>	<i>Credit Hours</i>
BCT 101 Introduction to Building Construction	4.0	3.0	5.0
BCT 142 Fundamentals of Construction Safety	4.0	0.0	4.0

(2nd Mini-Semester)

BCT 102 Fundamentals of Building Construction	3.0	3.0	4.0
BCT 104 Site Layout and Preparation	1.0	3.0	2.0

SPRING SEMESTER

(1st Mini-Semester)

BCT 112 Construction Print Reading	2.0	0.0	2.0
BUS 101 Introduction to Business	3.0	0.0	3.0
EEM 105 Basic Electricity	1.0	3.0	2.0

(2nd Mini-Semester)

BCT 151 Introduction to Residential Plumbing	2.0	3.0	3.0
BCT 213 Construction Specifications	2.0	0.0	2.0
BCT 221 Construction Building Code	3.0	0.0	3.0

SUMMER SEMESTER

BCT 131 Estimating/Quantity Take Off	2.0	0.0	2.0
BCT 231 Construction Labor and Expediting	3.0	0.0	3.0

Total Semester Hours

35.0

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