



GREEN COUNTRY TECHNOLOGY CENTER

Career Cluster: Architecture and Construction

Pathway: Construction

Major: Frame Carpenter

Local Name: Carpentry

Instructor: Steve Emerson

Total Hours: 1050

<u>Sequence of Courses:</u>	<u>Hours</u>
Construction Core	120
Footing and Pier Forms	45
Form Carpentry	45
Wall and Ceiling Framing	140
Residential Exterior Trim & Roof	80
Roofing Applications	140
Thermal & Moisture Protection	45
Stairs	45
Metal Stud Framing	45
Drywall Installation	85
Drywall Finishing	45
Installation of Interior Doors	35
Suspended Ceiling	30
Windows, Doors, Floors & Ceiling Trim	50
Cabinet Installation	70
Workforce Staging	30

Course Descriptions:

Construction Core

This is an introduction to basic safety, construction math, hand tools, power tools, blueprints, rigging, communication skills, and employable skills.

Footing and Pier Forms

This course is an introduction to structural loads, footing and foundation designs, types of concrete footing and foundations, local requirements for footings and foundations, foundation frost depth, and common types of footings.

Form Carpentry

This course is an introduction to form carpentry, purposes of forms, types of forms, parts of forms, hardware and fasteners used on forms, hand tools used in form carpentry, and related safety practices.

Wall and Ceiling Framing

This is an introduction to the steps taken in laying out and framing walls and ceilings. This will include rough-in doors, window openings, construction of corners and partition T's, bracing walls, ceilings, and applying sheathing.

Residential Exterior Trim & Roof

This course is an introduction to roof safety, roofing materials, flashing and step flashing, valley lap and cuts, roof cap, fascia, soffit, freezes board, brick mold, exterior doors, and windows.

Roofing Applications

This course is an introduction to common materials used in residential and light commercial roofing, safety practices and application methods, installation of shingles, roll roofing, shakes, tiles, metal and membrane roofs, and installation of roof vents.

Thermal & Moisture Protection

This is an introduction to the procedures in determining the appropriate thermal and moisture protection required to complete the project/job.

Stairs

This course is an introduction to types of wooden stairs used in residential and commercial construction, layout procedures for stairs, cutting out stringers, installing, and finishing stairs.

Metal Stud Framing

This is an introduction to the required methods for installing stud walls using metal framing materials.

Drywall Installation

This is an introduction to the skills required to install drywall in residential and commercial applications.

Drywall Finishing

This is an introduction to the skills required to install drywall in residential and commercial applications.

Installation of Interior Doors

This is an introduction to the skills required to properly install all types of interior doors and hardware.

Suspended Ceiling

This is an introduction to the techniques required to lay out and install suspended ceilings used in commercial construction. This will also include ceiling tiles, drywall suspension systems, and pan-type ceilings.

Windows, Doors, Floors & Ceiling Trim

This is an introduction to various types of trim used in finish work. This course will cover the proper methods for selecting, cutting, and attaching trim to provide a quality finish.

Cabinet Installation

This is an introduction to the skills required in the selection and installation of base and wall cabinets and counter tops.

Workforce Staging

This course is designed to be delivered as an integrated component within the courses taken by the individual student. The course is designed for the development of leadership, personal development and employability skills.