

**Construction Trades II Virtual Learning**

**One Trade Many Careers**

**Chapter 6**

**May 11 2020**

## Construction Trades II

### Lesson: May 11, 2020

#### **Objective/Learning Target:**

- Describe the basic educational and training requirements for the construction trades.
- Describe the crafts that are considered under the carpentry umbrella.
- Describe the work of commercial carpenters, interior systems carpenters, and mill-cabinet-workers.

# Chapter 6: Construction Trades, Part 1

Each of these occupations makes an important contribution in building the structures that we rely on every day.

- Residential Carpenter
- Commercial Carpenter
- Interior Systems Carpenter
- Mill-Cabinetmaker



# Education and Training Requirements for the Construction Trades

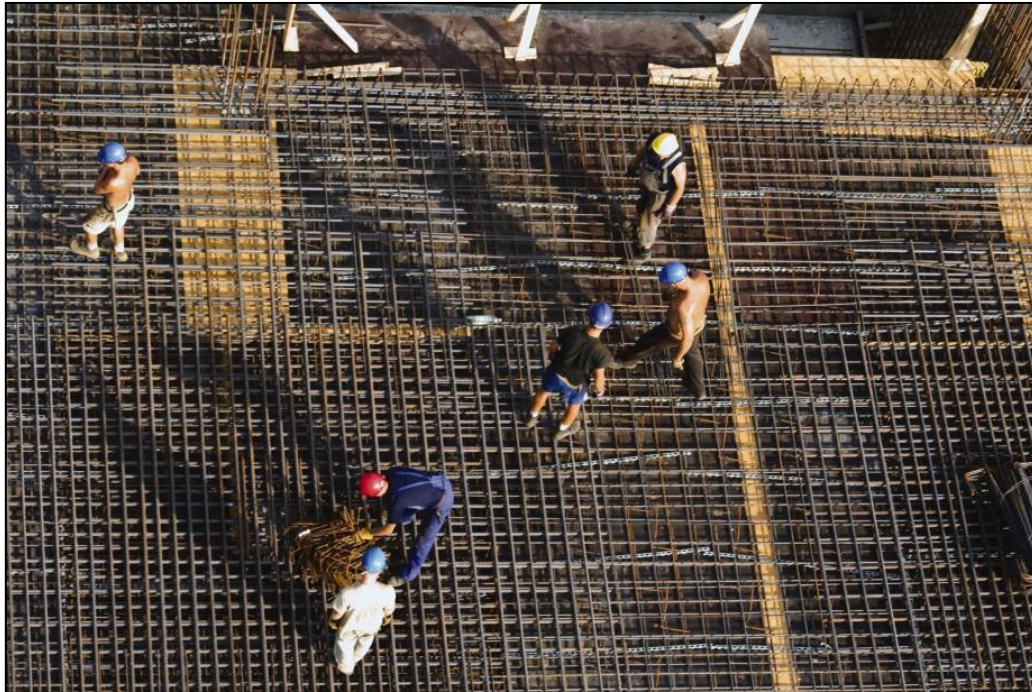
Helpful education and training include:

- High School – Especially classes in Computer-Aided Design, Math, and English
- Apprenticeship program – This program is typically four years, but can be longer or shorter
- Community college or technical college – An associates degree or certificate

# Education and Training Requirements for the Construction Trades *cont.*

## Required Skills

Carpenters must be physically fit. Since occupations in the construction trades are physically demanding, you'll want to participate in outdoor activities or physical education classes



# Education and Training Requirements for the Construction Trades *cont.*

## Required Skills, *cont.*

Carpenters must know how to read **prints**, which are a set of plans used to prepare construction projects. They also need to know how to use a variety of measuring tools, layout tools, hand tools, and power tools.



# The Carpenter's Craft

## Carpenters

The word carpenter is broadly interpreted by the United Brotherhood of Carpenters and Joiners (UBC) to include professional, trained, and skilled workers of a number of crafts, including:

- Carpentry
- Floor covering
- Lathing
- Millwrighting
- Pile driving
- Mill cabinetry

# The Carpenter's Craft *cont.*

Carpenters can:

- Build houses
- Build other structures such as amusement parks, restaurants, stores, dams, bridges, and sky scrapers
- Renovate museums and restore historic buildings
- Make decorative furniture, cabinets, and build movie and theater sets
- Build reception counters found in banks and hotels



# The Carpenter's Craft *cont.*

Carpenters use:

- Materials such as wood, fiberglass, drywall, metal, vinyl, and plastic
- Hand and power tools such as hammers, chisels, saws, nail guns, power drills, saws, and sanders

# The Carpenter's Craft *cont.*

## Carpenters:

- May work indoors, but are more likely to work outdoors
- Do a lot of physical work, including climbing, lifting, and standing for long periods of time
- May work alone, with a partner, or in a group



# The Carpenter's Craft *cont.*

Carpenters:

- Often start work early in the morning
- Often work more than 40 hours a week
- Can earn an average wage of \$19.84 plus benefits and overtime

# What is a Residential Carpenter?

A **residential carpenter** primarily works on new homes, apartments, condos, and residential complexes.

They also:

- Assemble and erect structural framework and exterior windows and doors
- Install flooring and drywall, hang interior doors, and install trim work and finish work

# What is a Commercial Carpenter?

A **commercial carpenter** is someone who works primarily on structures other than residences, such as:

- Office buildings
- Malls
- Schools
- Theaters
- Hospitals
- Bridges
- Highways



# What is an Interior Systems Carpenter?

An **interior systems carpenter** is responsible for the decorative elements of a building. They work with prefabricated products like:

- Light-gauge metal
- Tiles
- Fluorescent lights





# What is a Mill-Cabinetmaker?

A **mill-cabinetmaker** is a skilled artisan that builds cabinets and building furniture such as:

- Commercial and residential cabinets
- Furnishings—desks, tables, and chairs
- They use materials such as fine lumber, exotic woods, and veneers

