

Construction Trades | Virtual Learning

**One Trade Many
Careers Chapter 7**

May 18 2020

Construction Trades I

Lesson: May 18, 2020

Objective/Learning Target:

- Describe the work of floor layers, lathers, millwrights, pile drivers.
- Describe the work of boilermakers, bricklayers, electricians, glaziers, iron workers, painters, sheet metal workers, and other construction workers.

Chapter 7: Construction Trades, Part 2

- Floor Layer



- Lather



- Pile Driver



- Millwright



What is a Floor Layer?

A **floor layer** is a skilled worker who installs a wide variety of floor covering materials, including:

- Carpet
- Wood
- Tile
- Sheet vinyl
- Laminates



What is a Floor Layer? *cont.*

Floor layers do many things, including:

- Maintain, repair, or replace existing floors
- Work on new buildings or help renovate old ones
- Work on both residential and commercial structures
- Install artificial turf in sports stadiums
- Work with a partner or as part of a team

What is a Lather?

A **lather** is a skilled worker who uses metal mesh and plaster to create decorative elements such as:

- Amusement ride environments
- Zoo habitats
- False trees, rocks, and themed structures



What is a Lather? *cont.*

Modern lathing makes it possible to create the ornate walls and ceilings seen in large buildings, as well as fancifully shaped creations featured in resorts and theme parks.

Lathing is:

- A highly specialized field
- Cutting, joining, and fastening materials using a variety of hand tools and portable power tools
- Use welding equipment and oxygen-acetylene torches for cutting and fastening material
- Spreading plaster or another surfacing material onto the metal framework

What is a Millwright?

A **millwright** installs and maintains:

- Compressors
- Pumps
- Conveyors
- Monorails
- Mining equipment

What is a Millwright? *cont*

Millwrights also work on:

- Machinery at automobile plants, steel mills, oil refineries, and chemical companies
- Turbines that generate electricity in coal, hydroelectric, wind, and nuclear power plants
- Roller coasters



What is a Millwright? *cont.*

Millwrights use a variety of hand and power tools, hoisting equipment, welding equipment, lasers, and precision measuring tools. The work is very precise.

- The moving parts on machinery are separated by spaces no more than $\frac{1}{1000}$ of an inch, which is less than the thickness of a sheet of paper.
- Millwrights also test and monitor machinery to make sure it is running properly.
- Millwrights must know how to take apart entire machines and reassemble them.

What is a Pile Driver?

Skilled workers that install concrete, wood, or metal shafts, called pile, are referred to as **pile drivers**.

The pile:

- Holds back the earth during excavation
- Is used to stabilize the foundations of large buildings, bridges, and dams
- Is used to build docks and wharfs and may be used in underwater construction



What is a Pile Driver? *cont.*

Pile drivers:

- Nearly always work outdoors and in various kinds of weather
- Work with heavy equipment
- May be a commercial SCUBA diver
- Perform cutting and welding tasks both above and below water

Other Construction Occupations

The world of construction includes many other occupations, such as:

- **Boilermaker**
- **Bricklayer**
- **Electrician**
- **Glazier**
- **Iron worker**
- **Painter**, wallpaper hanger, and drywall finisher

Other Construction Occupations *cont.*

Other construction occupations:

- **Pipefitter**
- **Plasterer**
- **Plumber**
- **Roofer**
- **Sheet metal worker**