



The on-the-job training component to the apprenticeship totals 6,000 hours and is designed to be completed in 3 years.

## A. Safety Rules & Practices

1. Identify types, purposes and operation of fire extinguishers
2. Inspect shop and job site for hazards
3. Work cautiously and safely, using appropriate tools
4. Demonstrate care and storage of precision carpentry tools
5. Demonstrate safe handling of building materials
6. Demonstrate safe use of all power tools
7. Adhere to local, state and federal regulations (EPA [environmental], DOT [vehicle] and OSHA [worker safety])
8. Demonstrate knowledge of first aid for occupational hazards

## B. Carpentry Principles & Practices

1. Explain knowledge of carpentry
2. Explain construction methods and standards
3. Skilled use in basic carpentry tools
4. Skilled in the use of precision carpentry tools
5. Skilled in the use of trade mathematics to convert measurements
6. Ability to interpret complex instructions, sketches
7. Ability to interpret complex blueprints
8. Ability to interpret complex codes and specifications
9. Skilled in the use of trade estimated materials
10. Knowledge of the proper use, selection and substitution of materials to meet the requirements of strength, durability, appearance and safety.
11. Performs the full range of journey worker level carpenter tasks in the construction and repair of a wide variety of structural items.
12. Skilled in the use of and lay out of rafters, steps, arcs, circles and tangents.
13. Knowledge of safety requirements regarding the installation of staging, scaffolding and work platforms, fall protection barriers, handrails.
14. Interpret building specifications and regulations as they relate to building construction.
15. Estimate materials and labor costs to complete a project.

## C. Foundation, Walls, Floors

1. Laying out and leveling.
2. Laying out footings
3. Simple concrete forms
4. Laying out building lines

## D. Rough Framing and Interior Framing

1. Laying out and framing sills and girders
2. Framing and setting floor joists
3. Laying out and erecting walls and partitions
4. Lining up and bracing frame walls and partitions
5. Installing sheathing and plaster grounds
6. Building staging

## E. Roofs

1. Knowledge of framing and setting common rafters
2. Knowledge of framing and setting valley rafters
3. Knowledge of framing and setting hip and jack rafters
4. Roof coverings
5. Applying sheathing, composition shingles, and other types of roof covering
6. Demonstrate knowledge of safety requirements for roof work

## F. Exterior Mill Work

1. Knowledge of tools, materials, and equipment for lumber projects
2. Operating skill saw, electric drill, and sander
3. Setting up and operating bench saw

## G. Leadership Competencies

1. Demonstrate an understanding of leadership, chain of command, being a valuable member of a team.
2. Demonstrate an understanding of one's personal values
3. Demonstrate effectiveness in oral and written communication
4. Maintain a good professional appearance
5. Demonstrates dependability, initiative, desire to learn

## H. Hardware Fitting

1. Application of hardware and fittings to exterior and interior of buildings, doors and windows.

## I. Interior Wall Covering

1. Applying a variety of wall coverings.
2. Applying composition, sheet rock, or fiberboard

## J. Floors

1. Laying subfloors
2. Laying hardwood flooring, vinyl flooring, laminate flooring
3. Laying tile floors

## K. Stairs

1. Installing stair structures
2. Laying out and cutting various treads
3. Installing railings

## L. Interior Finish

1. Cutting and fitting baseboard and shoe molding
2. Cutting and fitting trim molding
3. Setting door jambs
4. Fitting and hanging windows
5. Fitting and hanging doors
6. Measuring trim, windows, doors

## M. Miscellaneous

1. Building walkways
2. Decks building
3. Footer install
4. Jobsite cleanup, tool storage, material disposal, hazardous disposal, dumpster loading
5. Proper methods of demo, identifying load bearing walls, joist location.

## N. Basic Carpentry

1. Constructs walls and partitions using wood or metal studs
2. Drywall repair – tape, mud, spackle, sand
3. Erects dust shields in areas where high levels of dust will be present during construction or demolition operations
4. Assembly or installation of manufactured cabinetry, and bookcases
5. Installs cabinets, counter tops, trim and molding
6. Alters and modifies existing walls by adding door and window frames and by cutting openings (for HVAC, duct, pipe runs, etc.) including appropriate repairs.
7. Repairs floors, ceilings, walls and sections of paneling
8. Knowledge and installation of ADA, aging in place, physical aids such as handrails, grab bars, ramps.
9. Installation of protective barriers to control construction dust, temporary dust protection walls, etc.

## O. Residential/Light Commercial Carpentry

1. Installs and tapes sheetrock
2. Installs suspended ceilings
3. Repairs floors, ceilings, walls and sections of paneling