CARPENTRY COMPETENCY PROFILE

Employability Skills



Utilizes Communication Technology

Construct a Career Portfolio

Give and Receive Constructive Feedback

Establish and Maintain Professionalism

Proven Problem-Solving Ability

Introduced to Basic Concepts of Self-Employment

Understands Concept of Corporations, Partnerships, and Sole Proprietorships

Recognizes Basic Payroll Practices

Understands Concept of Licensing

Explains the Basics of Establishing a Business Plan

Explains the Basics of Small Business Administration

Recognizes the Basic Concepts of Acquiring Loans and Financing

Explains Profit, Debt, Assets, and Liabilities

Constructs Basic Cost Estimates

Identifies healthy lifestyles that reduce the risk of chronic disease, unsafe habits and abusive behavior

Analyzes How Professional, Ethical and Legal Behavior Contributes to Continuous Improvement in Organizational Performance and Regulatory Compliance

Applies Cyber Hygiene Principles

Describes Call Before You Dig Procedures

Construction Math

Determines Surface Area

Determines Volume

Determines Perimeter

Calculates Board Foot

Measures to 1/16" Accuracy

Demonstrates Level and Plumb

Demonstrates 3-4-5 Squaring Methods

Converts Fractions to Decimals

Converts Decimals to Fractions

Measures Dimensions with Architects Ruler

Demonstrates Arc Scribe Methods

Bisects Lines and Angles

Determines Angles, Opposite & Adjacent Angles

Determine Length of an Arc

Calculate a Hypotenuse with Pythagorean Theorem

Estimates Basic Material Needs

Personal/Workplace Safety

Safely Handle Materials

Mitigates General Worksite Hazards

OSHA 10-hour Certificate

Blood Borne Pathogen Clean up

Demonstrate Lock Out Tag Out

Inspect and Erect Ladders and Perry Scaffolding

Sets-Up & Uses Ladder Jacks & Picks

Sets-Up & Uses Pump Jack Systems

Sets-Up & Uses Roof Jacks & Picks

Identify Safety Signs, Exits and Alarms

Identify Fire Classification Types (ABCD)

Explains PASS & RACE Procedures

Operates Fire Extinguishers

Locate and Interpret Safety Data Sheets

Maintain Proper Workspace Housekeeping

Select Don and Maintain Required P.P.E Don's PFAS Harness and Lanyards Establishes Anchor Points For PFAS Demonstrates Basic First Aid and CPR Communicates Basic Operator Hand Signals

General Carpentry

Describes Coniferous and Deciduous Species

Identifies Basic American Softwood Lumber Species

Identifies Basic American Hardwood Lumber Species

Identifies OSB, Plywood, MDF, Particle Board

Identifies LVL, Glulam and LSL Lumber

Selects Blades to Task

Drill/Chisel Stock

Utilize Hand Planers to Shape Stock

Describes Nominal & Actual Lumber Dimensions

Establishes Grade Benchmarks

Measures Grade Differences with Rotary Levels

Measures Grade Differences with Transits

Utilizes Three Axis Laser Levels for Layout

Determines Angle of Elevation

Sets-Up Batter Boards and Pulls String Lines

Locates and Interprets IRC & IBC Code Books

Demonstrates Dado, Rabbet, & Half-Lap Joints

Demonstrates Miter, Finger & Dovetail Joints

Demonstrates Mortise & Tenon Joinery

Demonstrates Pocket Hole Joinery

Identifies Common & Box Framing Nails i.e., 16D, 10D, 8D, 6D, 4D

Identifies Common Finishing & Casing Nails

Identifies Common Construction Screws & Anchors

Selects Sanding Grits to Task & Desired Finish

Carpentry Framing

Describes Riftsawn, Plainsawn Quartersawn Methods

Identifies Platform, Balloon, Post & Beam Framing

Identifies Floor Framing Components

Installs Sill Sealer, Plates and Bolts/Straps

Layout Basic Floor Systems

Cut and Install Floor Framing Components

Cuts and Installs Stairway Openings

Install Subflooring with Adhesives and Fasteners

Identify Wall Framing Components

Strike Wall Locations and Locate Partitions

Layout Walls and Rough Openings

Cut and Install Wall Framing Components

Installs Fire/Draft Blocking and Cribbing

Identify Roof Framing Components

Cut and Install Gable Roof Framing Components

Cut and Install Hip Roof Framing Components

Frames Dormers

Constructs Eaves & Soffit Returns

Describes Stairway Types and Components

Describes General Stair Codes

Layout and Cut Stair Basic Stair Stringers

Installs Skirt Boards, Balustrades and Handrails

Cut and Install Light Gauge Steel Framing Members

Interprets Basic Construction Drawings

Installs Wind Bracing on Exterior Walls

Installs Metal Structural Bracing (i.e., hangers)

Installs Prefabricated Roof Trusses with Hardware

Installs Wood Floor Trusses

Installs Sturd-I-Floor Systems

Installs 12" Concrete Pier Tube Forms & Anchors

Installs 4x4 & 4x6 Post Anchor Brackets

Cut and Install Door & Window Casings

Cut, Cope and Install Base & Shoe Moldings

Cut, Cope and Install Crown Moldings

Cut, Cope and Install Chair Rail

Installs House Wrap

Constructs & Uses a Story Pole

Installs Carriage Bolts & Structural Timber Screws

Install Ledger Boards & Joist Hangers

Equipment & Power Tool Operation

Cuts/Shapes Stock with Reciprocating Saws

Cuts/Shapes Stock with Saber Saws

Cuts/Shapes with Circular Saws

Cuts/Shapes with Compound Miter Saws

Operates Abrasive Wheel Cut-Off Saw

Cuts/Shapes with Table Saw

Cuts/Shapes with Panel Saw

Set-Up and Uses Tracks Saws

Operates Plunge and Fix Based Routers

Set-Up and Operates Router Tables

Operates/Shapes Stock with Industrial Surface Planer

Operates/Shapes Stock with Joiner

Operates/Shapes Stock with Bandsaws

Operates Portable Bandsaw

Cuts Tile with Wet Saw

Selects & Uses Pneumatic Tools & Fasteners to Task

Operates Portable Air Compressor

Selects & Uses Cordless Nailers & Fasteners to Task

Operates Biscuit Joiner

Operates Power Hand Planer

Operates Dedicated Mortiser

Operates Orbital & Finishing Sanders

Operates Drill Press

Operates Bench Grinders

Operates Hand-Held Grinders

Operates Powder Actuated Tools

Operates Hammer Drills

Operates Corded Hole Shooter

Operates Flush Cut Saw

Telehandler Operators Certificate

Skid-Steer Operators Certificate

Scissor Lift Operators Certificate

Telescoping Bucket Lift Operators Certificate

Mini Excavator Operators Certificate

Interior Coverings & Finishes

Repair Damaged Wall/Ceiling Surfaces

Measures, Cuts & Installs 1/2" & 5/8" Drywall

Demonstrates Level 2 Drywall Finishing

Installs Metal & Plastic Corner Beads

Prime/Prepare Wall Surfaces

Select and Apply Proper Paint and Sheen

Repair Suspended Ceiling Components

Repair/Install VCT Flooring

Repair/Install Ceramic Flooring

Repair/Install Hardwood Flooring
Install, Plumb & Level Pre-Hung Doors
Fabricate, Plumb & Level Door Jams & Stops
Install Crown Moldings
Repair/Install Standard Door Locks
Install Prefab Wall & Base Cabinets
Applies Silicone & Latex Caulk

Exterior Finish

Compares Roof Types & Materials
Install Vinyl Siding, Channel, Soffits
Bend and Install Fascia Coil Stock
Installs Roofing Paper
Installs Ice & Water Guard
Bends and/or Installs Drip Edge
Lay out and Install 3-Tab Roofing Shingles
Lay out and Install Dimensional Roofing Shingles
Install Ridge Vents
Apply Caulking/Sealant
Repair/Replace Weather Stripping
Install New Construction Windows
Replace Window Screening
Installs Corrugated Steel Siding
Installs Corrugated Steel Roofing