



#### MODULE 00101-04 – BASIC SAFETY

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of your local code
- Variety of communication tags and signs
- Dull and sharp cutting tools
- Code of Federal Regulations Part 1910*
- OSHA 29 CFR 1926*
- OSHA Form 300
- New and damaged hoses and regulators
- Materials to create hypothetical fire hazards
- Variety of safety tags
- Variety of types of personal protective equipment, including:
  - Hard hats
  - Safety glasses, goggles, and face shields
  - Safety harnesses
  - Gloves
  - Safety shoes
  - Hearing protection
  - Respiratory protection
- Copies of your company's fall protection plan
- Variety of ladders and scaffolds, including:
  - Straight ladders
  - Extension ladders
  - Stepladders
  - Manufactured scaffolds
  - Rolling scaffolds
- Sample material safety data sheet (MSDS)
- Variety of fire extinguishers
- Module Examinations
- Performance Profile Sheets

## **MODULE 00102-04 – INTRODUCTION TO CONSTRUCTION MATH**

Transparencies  
Markers/chalk  
Blank acetate sheets  
Transparency pens  
Pencils and scratch paper  
Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate personal protective equipment  
Copies of your local code  
Sample work orders that require mathematical functions  
60 straws  
Calculator  
Standard ruler (with 1/16-inch markings)  
Metric ruler (with centimeters [cm] and millimeters [mm])  
Architect's scale  
Blueprint  
Two lengths of wood  
Small hand saw  
Machinist's rule  
Protractors  
Module Examinations

## **MODULE 00103-04 – INTRODUCTION TO HAND TOOLS**

Transparencies  
Markers/chalk  
Blank acetate sheets  
Transparency pens  
Pencils and scratch paper  
Overhead projector and screen  
Whiteboard/chalkboard  
Appropriate personal protective equipment  
Copies of your local code  
Claw hammer  
Wood board with nails to practice using hammers and mallets  
Ball peen hammer  
Mallet  
Screwdriver  
Wood board with screws to practice using screwdrivers  
Sledgehammer  
Stake  
Nail pullers, including:  
    Cat's paws  
    Chisel bars  
    Flat bars  
Wood boards with nails to practice using nail pullers  
Slip-joint pliers

Pliers, including:

- Slip-joint
- Long-nose
- Lineman
- Channellock®
- Vise-Grip®

Boards with wire and soft metals to practice using pliers

Rulers and measuring tools, including:

- Steel rules
- Measuring tape
- Wooden folding rules

Spirit level

Combination square

Try square

Square wood frames to practice using the measuring tools

Plumb bob

Self-chalker/plumb bob

Clamps, including:

- C-clamp
- Locking clamp
- Spring clamp
- Bar clamp
- Pipe clamp
- Hand-screw clamp
- Web clamp

Crosscut saws

Ripsaws

Sections of wood suitable for sawing

Files and rasps, including:

- Veneer knife file
- Square file
- Triangle file
- Flat file
- Rat-tail file

Materials to be filed

Wood chisel

Cold chisel

Wood and metal to practice using the chisels

Nonadjustable wrenches

Adjustable wrenches

Torque wrench

Wedges

Utility knife

Cardboard box to practice cutting with a utility knife

Wire brushes

Dirty tools to clean using wire brushes

Module Examinations

Performance Profile Sheets

## MODULE 00104-04 – INTRODUCTION TO POWER TOOLS

Transparencies

Markers/chalk

Blank acetate sheets

Transparency pens

Pencils and scratch paper

Overhead projector and screen

Whiteboard/chalkboard

Appropriate personal protective equipment

Copies of your local code

Power drills, including:

- Electric drills

- Cordless drills

- Hammer drills

- Electromagnetic drills

- Pneumatic drills (air hammers)

- Electric screwdrivers

Variety of drill bits

Saws, including:

- Circular saws (Skilsaw®)

- Saber saws

- Reciprocating saws (Sawsall®)

- Portable handheld bandsaws

- Power miter box saws

Variety of saw blades

Changeable blades for saber saws

Boards to practice cutting

Grinders and sanders, including:

- Angle grinders (side grinders), end grinders, and detail grinders

- Bench grinders

- Portable belt sanders

- Random orbital sanders (finishing sanders)

Attachments for detail grinders

Metalwork to practice polishing

Materials to demonstrate a ring test

Miscellaneous power tools, including:

- Pneumatically powered nailers (nail guns)

- Powder-actuated fastening systems

- Air impact wrenches

- Pavement breakers

- Hydraulic jacks (Porta-Power™)

Nails

Air compressor

Nut and bolts to practice using the air impact wrenches

Module Examinations

Performance Profile Sheets

## MODULE 00105-04 – INTRODUCTION TO BLUEPRINTS

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of your local code
- Door, window, and hardware schedules
- A complete set of plans, including:
  - Architectural
  - Civil
  - Structural
  - Mechanical
  - Plumbing
  - Electrical
- Specifications
- Blueprints with title block
- Blueprints with a legend
- Measuring tools, including:
  - Engineer's scale
  - Architect's scale
  - Metric scale
- Blueprints with a gridline system
- Blueprints with interior and exterior measurements
- Module Examinations
- Performance Profile Sheets

## MODULE 00106-04 – BASIC RIGGING

- Transparencies
- Markers/chalk
- Blank acetate sheets
- Transparency pens
- Pencils and scratch paper
- Overhead projector and screen
- Whiteboard/chalkboard
- Appropriate personal protective equipment
- Copies of your local code
- OSHA 29 CFR 1926*
- Identification tags for slings
- Copies of *Figure 15* with the call outs covered
- Damaged slings or photos of damaged slings
- Two glasses
- One liter of water
- Anchor shackles and chain shackles

Various types of pins, including:

- Screw pin shackle

- Round pin or straight pin shackle

- Safety shackle

Damaged shackles and pins

Damaged and undamaged eyebolts

Undamaged lifting clamps

Rusty or corroded lifting clamps

Wire brush to clean lifting clamps

Damaged and undamaged rigging hooks

Module Examinations

Performance Profile Sheets

## **MODULE 00107-04 – BASIC COMMUNICATION SKILLS**

Transparencies

Markers/chalk

Blank acetate sheets

Transparency pens

Pencils and scratch paper

Overhead projector and screen

Whiteboard/chalkboard

Appropriate personal protective equipment

Copies of your local code

Examples of written materials commonly used on the job, including:

- Safety instructions

- Blueprints

- Manufacturer's installation instructions

- Materials lists

- Signs and labels

- Work orders and schedules

- Specifications

- Change orders

- Industry magazines and company newsletters

Trade manuals

Sets of instructions

Work-related forms, including:

- Accident reports

- Time and materials

- Training reports

- Time sheets

- Punch lists

- Change orders

- RFIs

Examples of well-written and poorly written emails

Module Examinations

Performance Profile Sheets

## MODULE 00108-04 – BASIC EMPLOYABILITY SKILLS

Transparencies  
Markers/chalk  
Blank acetate sheets  
Transparency pens  
Pencils and scratch paper  
Overhead projector and screen  
Whiteboard/chalkboard  
Copies of your local code  
Company mission statement  
Job listings from newspapers, trade magazines, and the internet  
Copies of blank job applications from area companies  
*Figure 10* with the call outs covered  
Computer reference books  
Laptop computer (if available)  
Excerpts from federal laws prohibiting job discrimination  
News articles highlighting workplace incidents, including:  
    Harassment  
    Stress  
    Drug and alcohol abuse  
Module Examinations  
Performance Profile Sheets