



Level One

MODULE 00101-00 - BASIC SAFETY

Appropriate personal protective equipment (PPE) to include:

- Hard hats
- Safety glasses and goggles, and face shields
- Safety harnesses
- Work gloves and shoes
- Back belt (if necessary)
- Hearing protection
- Respiratory protection

Overhead projector and screen

Whiteboard/chalkboard

PPE for welding including eye protection, ventilator, welding gloves, and welding mask

Examples of fuel and oxygen hoses, connectors, regulators, and welding tanks

Examples of hose damage caused by welding operations

Sample lockout/tagout signs

Ladders (or access to ladders)

Scaffolds (or access to scaffolds)

Assortment of scaffold tags

Variety of MSDSs

Three-wire extension cords and receptacles

Samples of damaged extension cords and electrical wiring

Transparencies

Markers/chalk

Pencils and scratch paper

Module Examinations

Performance Profile Sheets

MODULE 00102-00 - BASIC MATH

Calculator

Whiteboard or chalkboard

Overhead projector and screen

Standard ruler (with $\frac{1}{16}$ -inch markings)

Machinist's rule

Metric ruler (with markings in centimeters [cm] and millimeters [mm])

Erasable markers or chalk

Blank acetate sheets

Transparency pens

Pencils and scratch paper

Transparencies from Instructor's Guide

Module Examinations

Tape

Nails or other small tokens such as pennies (at least 50 total) – optional

MODULE 00103-00 – INTRODUCTION TO HAND TOOLS

Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Various sizes of claw and ball peen hammers
Various sizes and types of sledgehammers
Assortment of ripping bars and nail pullers
Nonadjustable and adjustable wrenches
Levels, including a digital or laser level
Various types of squares
Assortment of tape measures, rules, and digital measuring tools
Bench vise
Various styles of clamps
Saws, including a backsaw, compass saw, coping saw, dovetail saw, hacksaw, and handsaw
Assortment of files and rasps
Assortment of chisels and punches
Plumb bob and plumb bob with chalk line
Socket wrench sets
Torque wrenches
Wedges
A box to hold tools
Chalk lines
Utility knives
A chain fall and come-along
Wire brushes
Round, square, and spade shovels
Transparencies
Markers/chalk
Pencils and scratch paper
Module Examinations
Performance Profile Sheets
Wood stock
Metal stock
Lengths of pipe
Assortment of nails, screws, bolts, rivets, and dowels

MODULE 00104-00 - INTRODUCTION TO POWER TOOLS

Overhead projector and screen
Whiteboard/chalkboard
Appropriate personal protective equipment
Angle grinder, end grinder, or detail grinder
Assortment of drill attachments including grinder, sander, screwdriver, cutter
Assortment of drill bits including twist, forstner, flat-bladed spade, masonry, and auger.
Assortment of grinder discs, wheels, and points
Assortment of pneumatic nails
Assortment of sanding discs and abrasive belts
Assortment of saw blades including rip, crosscut, combination, nail cutter, and nonferrous metal cutter blades
Bench grinder
Circular saw
Clamps
Assortment of drills including cordless, electromagnetic and hammer drill
Hammers or mallets for using punches
Hydraulic jack
Marking tools
Metal stock
Nail gun
Pavement breaker
Piece of metal pipe
Plastic stock
Pneumatic drill (air hammer)
Portable belt sander
Portable handheld bandsaw
Power drill
Punches for wood and metal
Random orbital sander (finishing sander)
Reciprocating saw
Saber saw (jigsaw)
Markers/chalk
Pencils and scratch paper
Transparencies
Module Examinations
Performance Profile Sheets
Wood stock
Metal stock
Assortment of grinder discs, wheels, and points
Assortment of pneumatic nails
Marking tools
Piece of metal pipe
Plastic stock

MODULE 00105-00 - INTRODUCTION TO BLUEPRINTS

Overhead projector and screen

Whiteboard or chalkboard

Calculator

Samples of the following:

- Blueprints (hand-drafted and CAD drawings)

- Plans from the six plan groups:

 - Topographic maps

 - Roof-framing plans

 - Structural section plans

 - HVAC and P&IDs

 - Plumbing/piping plans

 - Isometric and orthographic drawings

Architect's, engineer's, and metric scales

Pipe stock and measuring tapes (optional)

Transparencies

Markers or chalk

Pencils and scratch paper

Module Examinations

Performance Profile Sheets

Floor plan

MODULE 00106-00 - BASIC RIGGING

Overhead projector and screen

Whiteboard/chalkboard

Appropriate personal protective equipment

Sample sling identification tags

Examples of synthetic web slings

Examples of grommet slings and eye-and-eye slings

Variety of damaged slings

Simulated loads such as wooden blocks, segments of copper or plumbing pipe, small sealed bags of sand on a board, or bricks

Simulated slings and hitches such as extra wide shoe laces, lengths nylon belting, or hardware store chains.

Variety of shackles, eyebolts, lifting clamps, and rigging hooks, damaged samples

Block and tackle

Various samples of chain hoists

An Erector® set or Lego blocks to build a block and tackle set

Transparencies

Markers/chalk

Pencils and scratch paper

Module Examinations

Performance Profile Sheets