



## Level One

### MODULE 28101 – INTRODUCTION TO MASONRY

Task Number	Item	Date(s)	Recorded By
<hr/>			
This is a knowledge-based module; there is no performance testing.			
<hr/>			

### MODULE 28102 – SAFETY REQUIREMENTS

Task Number	Item	Date(s)	Recorded By
<hr/>			
28102-1	Identify federal safety designation colors by providing one example for each of three colors chosen.		
<hr/>			
28102-2	Put on eye protection, respiratory protection, and a safety harness.		
<hr/>			
28102-3	Inspect and set up a straight ladder according to OSHA regulations.		
<hr/>			
28102-4	Use correct procedures for fueling and starting a gasoline-powered tool.		
<hr/>			

### MODULE 28103 – TOOLS AND EQUIPMENT

Task Number	Item	Date(s)	Recorded By
<hr/>			
28103-1	Identify masonry hand and power tools.		
<hr/>			
28103-2	Assemble and disassemble scaffolding under the supervision of a competent person, according to federal safety regulations.		
<hr/>			

## MODULE 28104 – MATHEMATICS, DRAWINGS, AND SPECIFICATIONS

Task Number	Item	Date(s)	Recorded By
28104-1	Use a mason's rule to measure a space and calculate its volume.		
28104-2	Use a mason's rule to measure a space and estimate the number of bricks to build a wall across it.		
28104-3	Interpret information on blueprints.		

## MODULE 28105 - MORTAR

Task Number	Item	Date(s)	Recorded By
28105-1	Properly set up the mortar mixing area.		
28105-2	Properly mix mortar by hand.		
28105-3	Properly mix mortar with a mechanical mixer.		

## MODULE 28106 – MASONRY UNITS AND INSTALLATION TECHNIQUES

Task Number	Item	Date(s)	Recorded By
28106-1	Lay a dry bond.		
28106-2	Accurately cut masonry units with a brick set and masonry hammer, a block set and mash, and a masonry hammer, power saw, and splitter.		
28106-3	Spread, edge, and furrow bed joints.		
28106-4	Butter bricks and blocks and place them on a bed joint.		
28106-5	Lay masonry units in courses that are true for height, level, plumb, and straightness.		
28106-6	Build a rackbar corner lead.		
28106-7	Lay masonry units to the line.		

# Level Two

## MODULE 28201 - RESIDENTIAL PLANS AND DRAWING INTERPRETATION

Task Number	Item	Date(s)	Recorded By
28201-1	From a plan, calculate the square footage of one elevation, including openings.		
28201-2	Estimate the amount of brick and mortar for that same elevation.		
28201-3	Estimate the size and number of lintel block for that same elevation.		

## MODULE 28202 - RESIDENTIAL MASONRY

Task Number	Item	Date(s)	Recorded By
28202-1	Lay out and construct a set of steps with three risers.		
28202-2	Lay out and construct a 5-foot by 7-foot brick patio section.		

## MODULE 28203 - GROUT AND OTHER REINFORCEMENT

Task Number	Item	Date(s)	Recorded By
28203-1	Place grout in a hollow block wall and rod in place.		

## MODULE 28204 - METAL WORK IN MASONRY

Task Number	Item	Date(s)	Recorded By
28204-1	Install a knockdown door frame in a 2 or 3-course brick wall.		
28204-2	Install a slip sill.		
28204-3	Lay one wythe of brick against one side of the frame.		
28204-4	Install hardware cloth unit ties in every other course.		

## MODULE 28205 - ADVANCED LAYING TECHNIQUES

Task Number	Item	Date(s)	Recorded By
28205-1	Lay a wythe of brick against a block wythe to make a composite wall. Use ties and a collar joint.		
28205-2	Lay a wythe of brick against a wood frame backing for an anchored veneered wall.		

## MODULE 28206 - CONSTRUCTION TECHNIQUES AND MOISTURE CONTROL

Task Number	Item	Date(s)	Recorded By
28206-1	Construct a four-course corbel starting at the fifth course on a double-wythe wall.		
28206-2	Construct an intersecting block wall joined with wire mesh or metal lath.		
28206-3	Install a row of flashing in an anchored veneer wall.		

## MODULE 28207 - ELEVATED WORK

Task Number	Item	Date(s)	Recorded By
28207-1	Properly set up a section of tubular steel scaffolding.		
28207-2	Properly put on a safety harness and attach it to the scaffolding.		
28207-3	Demonstrate safe elevated working procedures for stacking materials.		

## MODULE 28208 - CONSTRUCTION INSPECTION AND QUALITY CONTROL

Task Number	Item	Date(s)	Recorded By
	This is a knowledge-based module; there is no performance testing.		

# Level Three

## MODULE 28301 - MASONRY IN HIGH-RISE CONSTRUCTION

Task Number	Item	Date(s)	Recorded By
28301-1	Demonstrate the use of a safety harness, lanyard, and lifeline.		
28301-2	Identify hand signals used for lifting materials.		
28301-3	Properly apply coping and flashing to a parapet.		

## MODULE 28302 - SPECIALIZED MATERIALS AND TECHNIQUES

Task Number	Item	Date(s)	Recorded By
28302-1	Complete two of the following tasks selected by the instructor: <ul style="list-style-type: none"><li>• Construct a 4 × 4-foot rubble stone wall dry-stacked.</li><li>• Construct a 4 × 4-foot wall of glazed masonry units.</li><li>• Construct a 4 × 4-foot wall of glass blocks.</li><li>• Construct a 4 × 4-foot wall or floor of refractory brick.</li><li>• Construct a 4 × 4-foot wall or floor of acid brick.</li></ul>		

## MODULE 28303 - REPAIR AND RESTORATION

Task Number	Item	Date(s)	Recorded By
28303-1	Replace a damaged brick in a wall.		
28303-2	Repair mortar joints in a brick wall by tuckpointing.		
28303-3	Identify and properly remove a surface stain on a masonry wall.		

## MODULE 28304 - COMMERCIAL DRAWINGS

Task Number	Item	Date(s)	Recorded By
28304-1	Identify and document the design and location of 10 items contained in the set of commercial drawings. (The instructor will select the 10 items.)		
28304-2	Calculate the floor area of each room in the basement floor plan.		

## MODULE 28305 - ESTIMATING

Task Number	Item	Date(s)	Recorded By
28305-1	Estimate masonry items from a set of commercial drawings.		
28305-2	Prepare a set of estimating worksheets.		

## MODULE 28306 - PROJECT PLANNING AND SUPERVISION

Task Number	Item	Date(s)	Recorded By
28306-1	Prepare a pretask planning list.		
28306-2	Prepare a materials list for ordering materials.		
28306-3	Set up and operate an optical level to shoot three elevation points for a wall.		