

## TILE SETTER (4 YEARS)

### APPENDIX A

O\*NET 47-2044.00

This training outline is a minimum standard for Work Processes and Related Instruction. Changes in technology and regulations may result in the need for additional on-the-job or classroom training.

### WORK PROCESSES

	<b>Approximate Hours</b>
<b>A. Repairing and Patching Tile Work</b>	<b>300 – 400</b>
1. Removing existing damaged tile and adhesive, using chisel and scraper.	
2. Cutting tile, using tile cutter and nippers.	
3. Applying new adhesive, using notched trowel.	
4. Setting new tile.	
<b>B. Layout Work and Basics</b>	<b>160 – 260</b>
1. Reading blueprints or shop drawings.	
2. Checking levelness of substrate, using transit, water, or laser level.	
3. Snapping chalk lines on walls and floors.	
4. Drawing plumb and level lines on walls.	
5. Snapping square lines on floors.	
6. Determining placement of patterns; marking pattern on wall or floor	
<b>C. Floating, Screeding, and Scratching Wall as Preparation (Vertical and Horizontal)</b>	<b>1040 – 1440</b>
1. Applying scratch coat, using hawk, trowel, and scratcher.	
2. Setting float strips or dots & screeds.	
3. Applying float coat using hawk, trowel, and feather edge.	
<b>D. Installing All Other Types of Substrates</b>	<b>700 – 1000</b>
1. Green-Board, Dura-Rock and other moisture-resistant back-up materials.	
2. Installing substrates, using screw gun or hammer.	

- E. Working Walls (Residential and Commercial) 1165 – 1400**
1. Ensuring that substrate is flat and/or straight.
  2. Repairing/patching any dips or faults, using hawk and trowel.
  3. Mixing thin set mortar or adhesive; applying, using notched trowel.
  4. Placing all types of tiles including:
    - a. porcelain
    - b. quarry
    - c. ceramic
    - d. marble
    - e. granite
    - f. mosaic
  5. Cutting tile to size, using tile cutter and nippers.
- F. Preparing and Installing Tile Showers and Jamb 635 – 835**
1. Placing shower mud base.
  2. Pitching mud base.
  3. Applying mud-set.
  4. Placing tile on base.
  5. Placing tile on walls and jamb.
  6. Preparing and installing prefabricated shower units.
- G. Preparing and Installing Countertops, Pullman, and Sinks 400 – 565**
1. Spreading proper adhesive on countertop base.
  2. Placing tile on countertop; cutting tile as needed.
  3. Cutting hole for ceramic or marble sink, using power saw.
  4. Setting sink in opening.
  5. Drilling holes for all fasteners into masonry; filling holes with epoxy as appropriate; applying fasteners.
- H. Preparing and Installing Floors and Steps (All Types) 580 – 680**
1. Cleaning substrate.
  2. Checking level.
  3. Patching and grinding base or stone as necessary.
  4. Doing layout

5. Cutting and installing all types of finish materials, including:
  - a. tile
  - b. marble
  - c. pre-cast terrazzo
  - d. granite
  - e. other stone
  - f. artificial (man-made)
6. Drilling holes to receive doweling and pinning, using hammer drill, filling holes with epoxy.
7. Using chain fall to position large or heavy units (if applicable).

<b>I. Working Quarry Tile of All Types in All Applications</b>	<b>390 – 490</b>
<b>J. Preparing and Installing Ceilings</b>	<b>200 – 300</b>
1. Inspecting, erecting, disassembling, maintaining scaffolding.	
<b>K. Preparing and Installing Tile Mantels and Hearths</b>	<b>150 – 200</b>
1. Preparing and installing tile	
2. Swimming pools, domes, arches, and columns.	
<b>L. Cleaning, Treating, and Sealing Surfaces</b>	<b>180 – 280</b>
1. Including Waterproofing and Caulking (All Techniques).	
<b>M. Grouting (All Processes)</b>	<b>100 – 150</b>
<b>Approximate Total Hours</b>	<b>6000 – 8000</b>

Apprenticeship work processes are applicable only to training curricula for apprentices in approved programs. Apprenticeship work processes have no impact on classification determinations under Article 8 or 9 of the Labor Law. For guidance regarding classification for purposes of Article 8 or 9 of the Labor Law, please refer to <https://dol.ny.gov/public-work-and-prevailing-wage>

## **TILE SETTER (4 YEARS)**

### **APPENDIX B**

#### **RELATED INSTRUCTION**

##### **Safety**

1. Construction safety, including all applicable OSHA regulations, standards, rules
2. OSHA 10-Hour Construction Course – if required for Public Work
3. First Aid – minimum 6.5 hours every 3 years
4. Sexual Harassment Prevention Training – must comply with section 201-g of the Labor Law
5. Scaffold safety
6. Drug and alcohol awareness
7. Materials safety data sheet
8. Use of personal protective equipment
9. Proper storage, use, and disposal of toxic/caustic chemicals used in the Trade
10. Asbestos Safety
11. Successfully complete Operations and Maintenance course approved by New York State Department of Health

##### **Blueprints**

1. Basic blueprint reading
2. Advanced blueprint reading
3. Reading shop drawings

##### **Mathematics**

1. Trade math (including measurement, arithmetic, geometry)
2. Materials estimating

##### **Trade Theory and Science**

1. Orientation to the trade
2. Use of equipment
3. Mortars and adhesives
4. Use of hand tools
5. Cleaning, sealing, and finishing

6. Layout methodology
7. Laser and transit levels
8. Hoisting, if applicable
9. Advanced topics / new technologies

**Other Required Topics**

1. Industrial and labor relations (20 hours)
  - a. History and background (6 hours, first year)
  - b. Current laws and practices (14 hours, second year)

**Other Suggested Topics**

1. Diversity in the workplace
2. Oral communication skills

A minimum of 144 hours of Related Instruction is required for each apprentice for each year.

Appendix B topics are approved by New York State Education Department.