

TRADE SCHEDULE FOR: ROOFER

This trade schedule is attached to and a part of the Apprenticeship Standards for the above identified occupation. This sequence of Related Classroom Instruction is competency based and will be offered as traditional classroom training or independent study, which may include: Internet-learning, video telecast and CD-ROM.

1. TERM OF APPRENTICESHIP

The term of the occupation shall be 3 years with an OJT attainment of 6000 hours supplemented by the required hours of related technical instruction.

2. RATIO OF APPRENTICES TO JOURNEYPERSONS

The Ratio of Apprentices to Journeypersons will be 1:1 for the first 3 apprentices and 1:3 thereafter.

3. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyperson wage rate.

Term: 6000 Hours

1st 1000 hours = 50 percent of journeyperson's rate

2nd 1000 hours = 60 percent of journeyperson's rate

3rd 1000 hours = 70 percent of journeyperson's rate

4th 1000 hours = 75 percent of journeyperson's rate

5th 1000 hours = 85 percent of journeyperson's rate

6th 1000 hours = 95 percent of journeyperson's rate

4. SCHEDULE OF WORK EXPERIENCE (See attached Work Processes/Work Experience Schedule)

Apprenticeship Committees may add to the work processes prior to submitting these Standards to the appropriate Registration Agency for approval.

5. SCHEDULE OF RELATED INSTRUCTION (See attached Related Classroom Instruction Outline)

Curricula modules are based on industry standardized applications of current construction practices. Modules are knowledge and skill based including a system for assessment. The assessment will include task objectives, procedures, review materials, and competency-based performance tests. The curriculum is designed to be completed in levels of instruction as indicated in the outline. The levels of instruction are designed to reflect a commonly accepted progression of instruction consistent with continuous growth and understanding of the craft and attainment of the related craft skills. Levels comprise successive tiers of instruction and meet the minimum Apprenticeship, Training, Employer, and Labor Services requirement for classroom-related training.

A. General Work and Safety	750
- proper clothing, PPE, - fall protection equipment - ladder and scaffold safety - materials handling, loading, disposal, distribution	
B. Low-Slope and Waterproofing Systems, Application Skills, including BUR, Modified Bitumen and Single Ply	2600
-System-specific application safety - Jobsite setup - Tools and equipment inspection and use - Materials preparation - Substrate preparation - Insulation application - Membrane application Loose-laid ballasted, mechanically attached and fully-adhered - Flashing and accessories application - Jobsite breakdown and cleanup	
C. Steep-slope Roofing Materials Application Skills	800
- Steep-slope safety and fall protection issues - Materials specific application safety - Jobsite setup - Tools and equipment inspection and use - Insulation Application - Underlayment application - Asphalt composition shingle application -Wood shake shingle application -Slate application -Clay and concrete tile application -Valley, flashing detail and accessories application	
D. Roof System Maintenance, Inspection and Repair	650
-Specific maintenance and repair safety issues - Problem identification and leak finding - System membrane repair methods - Surfacing repair methods - System flashing repair methods	
E. Specialized Roof Work Application Skills	800
- Specific specialty work application safety -Tools and equipment inspection and use -Roof deck and structure repair -Tapered insulation system application -Saddle and cricket field design and application -Protected membrane system application -Expansion joint and area dividers application -Skylight and rooftop accessory application	

F. Specialized Roof System Application Skills	400
<ul style="list-style-type: none"> - System-specific application safety - Jobsite setup - Tools and equipment inspection and use - Low and high-rise spray-applied polyurethane foam application - Liquid-applied roof coating and system application 	
TOTAL	6000

A5.1 ROOFER RELATED CLASSROOM INSTRUCTION

Modules	Hours
Basic Safety	15
Intro to Construction Math	15
Intro to Hand Tools	10
Intro to Power Tools	5
Intro to Blueprints	7.5
Basic Rigging	20
Nails, Fasteners and Adhesives	7.5
Concrete and Reinforcement Materials	10
Fasteners, Hangers and Supports	7.5
Steel and Other Metals	2.5
Intro to Sheet Metal Layout and Processes	7.5
Bolting and Aligning	5
Roof Framing	37.5
Soldering	15
Gutters and Downspouts	7.5
Roof Flashing	10
Trim and Flashing	10
Roof Panel Types and System Design	10
Installing Standing Seam Roof Systems	32.5
Installing Lap Seam Roof Systems	12.5
Physical Characteristics/Properties of Metals	10
Introduction to Welding, Brazing and Cutting	20
Roofing Applications	25
Installation of Cornices, Gutters and Downspouts	12
Fabrication II-Radial Line Development	55
Reroofing	20
Roof Coatings	10
Shop Production and Organization	25
Fabrication IV-Comprehensive Review	60
TOTAL HOURS	484.5