



STATE OF NEW YORK  
DEPARTMENT OF LABOR

APPENDIX A

IRON WORKER (STONE DERRICKMAN & RIGGER) – 3 YEARS

D.O.T. CODE 801.361-014

O\*NET CODE 47-2221.00

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

Approximate Hours

A.	<u>Rigging</u>	1,000
1.	Safety in rigging procedures	
2.	Care and use of fiber line, wire rope, nylon slings and steel chokers	
a.	Determining safe working capacity (SWC), inspection and proper use	
3.	Using rigging hardware	
a.	Determining SWC, inspection and proper use	
4.	Using and reeving blocks and tackle	
a.	Determining SWC, inspection and proper use	
5.	Using slings, chokers and softeners	
a.	Determining SWC, inspection and proper use	
6.	Erecting or lifting with cranes (all types) and helicopters	
a.	Determining SW radius and capacity	
b.	Erection, disassembly and inspection	
c.	Using proper hand and/or radio signals	
7.	Using hand and miscellaneous rigging equipment	
8.	Using jacks, rollers and related devices	
9.	Using access structures, scaffolds, ramps, ladders, hanging, rolling, etc.	
10.	Using hoists, winches and related devices	
11.	Using shoring	

- B. Cranes and Derricks 1,000
1. Use of mobile cranes
    - a. Assembly and disassembly
    - b. Field inspection and safety, signaling methods
    - c. Operating procedures and precautions
  2. Use of tower and kangaroo cranes
    - a. Assembly and disassembly
    - b. Field inspection and safety, signaling
    - c. Operating procedures and precautions
  3. Using guy or stiffleg derricks
    - a. Assembly, jumping and disassembly
    - b. Signaling methods, inspection and safety
    - c. Proper operating procedures and precautions

- C. Welding 1,200
1. Safety
  2. Oxy-acetylene
    - a. Welding, cutting, heating
  3. Electric arc processes
    - a. SMAW
    - b. FCAW
    - c. GMAW
    - d. GTAW
    - e. SAW
    - f. SW
  4. Testing and certification of apprentice as certified welder

- D. Erecting/Installing Natural Stone, Pre-Cast Stone Panels, Pre-Cast Concrete 1,300
1. Safety
  2. Unloading, handling, storing
  3. Field layout and use of erection drawings
  4. Erecting/installing
  5. Fastening/anchoring methods
  6. Plumbing, aligning, leveling

Total Hours 4,500

*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 <http://www.labor.state.ny.us/workerprotection/publicwork/PDFs/Article8FAQS.pdf>*

## APPENDIX B

### IRON WORKER (STONE DERRICKMAN & RIGGER) – 3 YEARS

#### RELATED INSTRUCTION

##### Safety

OSHA 10-hour construction course  
Working safely on a construction site  
Sub-part R – steel erection standard training – minimum 10 hours  
Personal protective equipment  
Material handling without injury  
Fall protection  
Scaffold standard  
Rigging safety  
Signaling  
MSDS  
Silicosis safety  
Alcohol and substance abuse awareness  
First aid/CPR – minimum 6.5 hours every 3 years

##### Blueprints

Blueprint reading  
Layout

##### Trade Theory and Science

Using and caring for tools of the trade (hand and power)  
Loading and operating hand truck  
Forklift training  
Handling and storing materials of the trade  
Stonework rigging  
Welding and burning  
Cutting  
Mixing of cement (including ratios)  
Erecting/installing  
Fastening/anchoring

##### Interpersonal Workplace Skills

Industrial and labor relations (20 hours)  
    History and background (6 hours, first year)  
    Current laws and practices (14 hours, second year)  
Sexual harassment prevention training – minimum 3 hours

Iron Worker (Stone Derrickman & Rigger) – 3 Years – Related Instruction – continued

Other Related Courses as Necessary

A minimum of 144 hours of Related Instruction is required for each apprentice for each of the first two years of the apprenticeship. A minimum of 280 hours of Related Instruction is required for each apprentice for the third year of the apprenticeship.