

**STATE OF NEW YORK
DEPARTMENT OF LABOR**

APPENDIX A

PAINTER AND DECORATOR (STRUCTURAL STEEL AND BRIDGES)
D.O.T. CODE 840.381-010
O*NET 47-2141.00

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

	<u>Approximate Hours</u>
A. <u>Health and Safety</u>	1,500
1. Using personal protective equipment	
a. Fall protection	
1. safety belts	
2. full body harnesses	
3. double lanyard systems	
4. deceleration device	
5. static lines and safety cables	
6. safety nets	
b. Respiratory protection	
1. proper care and maintenance	
2. proper use of:	
a. negative air	
b. positive air	
c. supplied air	
d. air purifying systems	
e. half-face	
f. full-face	
3. fit tests	
a. qualitative	
b. quantitative	

- 4. fit checks
 - a. positive
 - b. negative
- 5. filters
 - a. HEPA filters
 - b. charcoal filters
 - c. combination filters
- c. Hard hats
- d. Hearing protection
- e. Eye protection
- f. Protective clothing
- 2. Maintenance of traffic
 - a. Lane closures
 - b. Signs, cones, arrow boards, attenuator trucks
 - c. Movement of traffic through work area
 - d. Following proper flagging procedures
- 3. Precautions in working with chemicals
 - a. Identifying environmental chemicals likely to be encountered in the trade
 - b. Following OSHA and EPA regulations, standards, rules
- 4. Demonstrating knowledge of, and working in accordance with, HAZCOM training
 - a. Right-to-Know standards
 - b. Reading and following MSDS
- 5. Following hygiene procedures
- 6. Following drug and alcohol policies

B. Lead Abatement

1,500

- 1. Establishing a lead work area
 - a. Wording and placement of signs
 - b. Establishing a perimeter
 - c. Developing a safety plan
 - d. Designating clean areas
 - e. Establishing emergency response plan
 - f. Obtaining and processing samples
 - 1. background soil samples
 - 2. water samples
 - 3. ambient air monitoring
- 2. Containment
 - a. Familiarization with, and use of, different classes of containment
 - b. Negative air

- c. Dust collection systems
- d. Engineering controls
- e. Build up/tear down
- 3. Removal of lead-based paint
 - a. Sand blasting
 - b. Water blasting
 - c. Recycleable grit
 - d. Power tool systems
 - e. Hand tools cleaning techniques
- 4. Removal of spent media
 - a. Venturi system vacuums
 - b. HEPA systems
- 5. Storage and handling
 - a. Bagging and sealing
 - b. Properly securing hazardous waste
 - c. Drums
 - d. Roll-off containers
 - e. Proper labeling
 - f. Removal from site
- 6. Decontamination
 - a. Tools and equipment
 - b. Personnel
 - 1. decon trailers
 - 2. wash stations
 - c. Observing proper hygiene procedures

C. Scaffolding, Rigging, Boom/Lift

500

- 1. Selecting and using different types of scaffolds
 - a. Horizontal two point suspension
 - b. Drop scaffolds
 - c. Platforms
 - d. Mechanical cable suspend systems
 - 1. sky-climber
 - 2. spider
 - e. Rope block and fall systems
 - f. Single point suspension
 - g. Rolling scaffolds
- 2. Equipment
 - a. Identifying, selecting, and using different types and sizes of cable
 - b. Identifying, selecting, and using different types and sizes of rope

- c. Using wire rope slings, hooks, grippers, clips, etc.
 - d. Using comealongs, torque wrenches, levers, etc.
 - 7. Knots
 - a. Identifying, selecting, and using different types of knots
 - b. Mastering major knots used by bridge painters
 - c. Proper use and location of knots
 - 8. Boom/Lift Operation
 - a. Observing all safety precautions
 - b. Proper use
 - c. Emergency operation
- D. Hand Tools and Equipment 250
- 1. Safe use and maintenance of hand tools such as:
 - a. Brushes, rollers, manhelpers
 - b. Chipping hammers, wire brushes, scrapers
 - c. Proper care and cleaning of tools
 - d. Following safety practices in the use and cleaning of hand tools
- E. Power Tools and Equipment 250
- 1. Safe use and maintenance of power tools such as: scalers, needle guns, air chisels, grinders, mixers, etc.
 - 2. Safe use and maintenance of equipment such as: sandblast hoppers, compressors, generators, dust collectors, vacuum machines, hoses, air monitors, decon units, steel shot recovery units, spray machine, etc.
- F. Painting of Structural Steel 2,000
- 1. Understanding scope of work; reading blueprints and work orders
 - 2. Selecting and using paints:
 - a. Epoxies and urethanes
 - b. Industrial enamels
 - c. High solids mastic-type polymers
 - d. Zinc primers
 - 3. Mixing of various types of paint
 - 4. Proper and safe use of solvents
 - 5. Application of paints and coatings

- 6. Spray painting
 - a. Techniques
 - b. Proper maintenance of spray machine, guns, hoses
 - c. Accessories
 - d. Troubleshooting/repair
- 7. Metalizing/thermal spraying
 - a. Demonstrating knowledge of the fundamentals of the process
 - 1. combustion
 - 2. electrical
 - b. Metalizing equipment
 - c. Observing all safety precautions
 - d. Surface preparation
 - e. Clean up and disposal
- 8. Clean up

Total Hours

6,000

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

PAINTER AND DECORATOR (STRUCTURAL STEEL AND BRIDGES)

RELATED INSTRUCTION

1st YEAR

Orientation

- Explain program to apprentices
- Describe what is expected of an apprentice
 - How to look and act
 - What are your duties
 - Sexual harassment prevention training (3 hours minimum)
 - Questions
- Industrial and labor relations
 - History and background
- Materials of the trade
- Tools of the trade
- Basic mechanics of the trade

Safety and Health

- Safety fundamentals
- OSHA 10-Hour Construction Course – if required for Public Work
- Trade safety
 - Rigging
 - Lead safety
 - Identification, handling, and disposal of other hazardous chemicals and materials
 - All applicable OSHA and EPA regulations, standards, rules
- Asbestos safety
 - If apprentice will do any handling of asbestos:
 - Successfully complete a course approved by the New York State Department of Health for “Asbestos Handler” and obtain, and keep current, an “Asbestos Handler (Worker)” certificate from the New York State Department of Labor.
 - If apprentice will do no handling of asbestos:
 - Asbestos Awareness – minimum 4 hours (see attachment)
- Lead abatement
- Hygiene

Drug and alcohol policies
First aid (minimum 6.5 hours every 3 years)

Environmental

EPA Title X certification class (lead abatement) (32 hours)

Knots

Identifying, selecting, and using different types of knots
Major knots for bridge painters
Proper use and location of knots

Other Related Courses as Necessary

2nd YEAR

Mathematics

Fundamentals of trade math
Air flow/velocity measurements (containment)

Industrial and Labor Relations

Current laws and practices

Blueprints and Work Orders

Fundamentals of reading blueprints
Fundamentals of reading work orders

Lead Abatement

Establishing a lead work area
Containment
Removal of lead-based paint
Removal of spent media
Storage and handling
Decontamination

Painting of Structural Steel

- Understanding scope of work; reading blueprints and work orders
- Selecting and using paints
- Mixing paint
- Solvents
- Application of paints and coatings
- Spray painting
- Metalizing/thermal spraying
- Clean up
- Maintenance of traffic

Other Related Courses as Necessary

3rd YEAR

Spraying

Rigging and Scaffolding

- Identifying different types of scaffold
- Identifying different types of platforms
- Equipment
- Knots

Boom/Lift Operation

- Safety
- Proper use
- Emergency operation

Sandblasting

- Grades of blasting
 - Commercial
 - Near white metal
 - White metal
- Types of blasting material
- Proper use of equipment

Techniques
Sandblasting/recycling unit

Other Related Courses as Necessary

A minimum of 144 hours of Related Instruction is required for each apprentice for each year, for a total of at least 432 hours.

ATTACHMENT TO APPENDIX B

Asbestos Awareness

This course must be delivered by one of the following:

1. A provider currently approved by the New York State Department of Health to deliver asbestos safety training.
2. A person holding a current Asbestos Handler certificate from the New York State Department of Labor in the title of: Inspector, Supervisor, Project Monitor, Management Planner, or Project Designer.
3. Anyone otherwise approved by the New York State Education Department.

Minimum course contents must include the following:

1. Definition of asbestos
2. Types and physical characteristics
3. Uses and applications
4. Health effects:
 - Asbestos-related diseases
 - Risks to families
 - Cigarette smoking
 - Lack of safe exposure level
5. Employer-specific procedures to follow in case of potential exposure, including making a supervisor or building owner immediately aware of any suspected incidental asbestos disturbance so that proper containment and abatement procedures can be initiated promptly.

Notwithstanding the above course requirement, employers are advised that they must also be in compliance with New York State Department of Labor Industrial Code Rule 56 at all times.

Employers are further advised, and must advise all apprentices, that completion of the above course requirement does not authorize any person to remove, encapsulate, enclose, repair, disturb, or abate in any manner, any friable or non-friable asbestos, asbestos containing material, presumed asbestos containing material, or suspect miscellaneous asbestos containing material.