

# FURNITURE FINISHER (PAINTER)

## APPENDIX A

O\*NET CODE 51-7021.00

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. Acquisition of General Knowledge</b>	<b>500</b>
1. Learns care of handling of antiques	
a. Precautions against damage	
b. Proper methods of crating	
2. Types of Antiques	
a. Kinds of wood found	
i. recognition of cherry	
ii. recognition of walnut	
iii. recognition of mahogany	
iv. recognition of maple, etc.	
3. Learning peculiarities of construction	
a. Use of hidden dowels	
b. Types of joints	
4. Acquires general knowledge of styles	
a. Characteristics and recognition of	
i. Chippendale	
ii. Duncan Phyfe	
iii. Early American types, etc.	
<b>B. Preparation of a Job for Refinishing</b>	<b>500</b>
1. Disassembly	
a. Use of hand tools	
b. Precautions against damaging wood	
2. Removal of Upholstery	

- a. Check for necessary repairs
  - b. Reinforcement of weak sections
  - c. Broken dowels
  - d. Replacement of sections
  - e. Weak joints, etc.
3. Making necessary repairs
- a. Use of hand tools
    - i. drills, saws, hammer, gauging tools, scrapers, screw drivers
    - ii. gluing
    - iii. use of hidden metal plates
    - iv. installing dowels

**C. Use of Remover Solutions**

**800**

- 1. Learn various types of solutions
  - a. Amylacetate
  - b. Bensoin
  - c. Wood Alcohol
  - d. Other chemicals
- 2. Learn neutralization of other chemicals used
- 3. Removal of old finish
  - a. When necessary
  - b. Procedures for drying furniture

**D. Sanding Processes**

**700**

- 1. Hand sanding
  - a. Learn grades of abrasive used
  - b. Proper method of application
  - c. Effects of sanding on grain of wood
- 2. Machine sanding
  - a. Use of electric sander
    - i. Tables tops and broad surfacer
    - ii. Grades of abrasive used
    - iii. Effects on grain of wood
- 3. Sanding undercoats

- a. Types
  - i. Shellac
  - ii. Lacquer
  - iii. Varnish
  - iv. Plaster
  - v. Enamels
- b. Learns amount of sanding required according to finish desired
  - i. Treatment of exterior work
  - ii. Treatment of interior work and paint finish
  - iii. When to sacrifice durability for beauty

**E. Application of Finish**

**1,000**

- 1. Mixing shellac
  - a. Types used
  - b. Ingredients
  - c. Use of coloring powder
  - d. Thinning
- 2. Mixing filler and stain
- 3. Mixing oil stain
  - a. Ingredients
  - b. Characteristics
  - c. Use
- 4. Mixing acid stain
  - a. Ingredients
  - b. Characteristics
  - c. Use
- 5. Mixing spirit stain
  - a. Ingredients
  - b. Characteristics
  - c. Use
- 6. Applying oil stain
  - a. Procedures
  - b. Precautions
  - c. Wiping

- d. Drying and sanding
- 7. Applying acid stain
  - a. Procedure
  - b. Precautions
  - c. Wiping
  - d. Drying and sanding
- 8. Applying spirit stain
  - a. Procedure
  - b. Precaution
  - c. Wiping
  - d. Drying and sanding
- 9. Applying shellac
  - a. Procedure
  - b. Precaution
  - c. Drying
  - d. Sanding
- 10. Applying lacquer, varnish, enamels
  - a. Procedure
  - b. Precaution
  - c. Drying

**F. Hand Polishing 500**

- 1. Use of pumice stone and oil
- 2. Use of rotten-stone
- 3. Water sanding

**G. Blending and Matching and Finishing 600**

- 1. Use of filler wax
- 2. Use of color powder stains
- 3. Use of different vehicles for thinning and mixing
- 4. Use of varied amounts of stain, etc. to produce desired effects
- 5. Learns reaction of different wood to different types of stain
- 6. Use of filler to change grain pattern of wood
  - a. close grained types

- b. open grained types
- 7. Effects of heat on varnish when matching waxes are used
- 8. Eliminating rings, burns, acid stains, blooming, crawling, sweating, pitting
  - a. Recognition of causes
  - b. Correction procedures
- 9. Making furniture polish
  - a. Ingredients
  - b. Mixing procedures
  - c. Use
- 10. Stencil work
- 11. Drawing and hand decorations
- 12. Striping

**H. Estimating Jobs 200**

- 1. Costs of home repairs
  - a. type of shell required in repair job
  - b. hours of labor involved
  - c. risk where irreplaceable pieces are involved
- 2. Shipping and crating charges where necessary

**I. Burning In 600**

**J. Spraying 600**

**Approximate 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 <https://dol.ny.gov/public-work-and-prevailing-wage>*

## **FURNITURE FINISHER (PAINTER)**

### **APPENDIX B**

#### **RELATED INSTRUCTION**

##### **Safety (16 hours)**

1. Fundamentals (4 hours first year)
2. Trade Safety (12 hours second year)
3. First Aid – minimum 6.5 hours every three years

##### **Industrial and Labor Relations (20 hours)**

1. History and Background (6 hours first year)
2. Current Laws and Practices (14 hours second year)

##### **Blueprint Reading and Sketching**

1. Elementary blueprint reading and sketching
2. Furniture design and construction
3. Period furniture

##### **Mathematics**

1. Fundamentals
2. Cabinet shop and painting math
3. Formulas, tables etc.
4. Estimating

##### **Trade Theory**

1. Tools and Equipment
2. Terminology
3. Materials
4. Operation, Care and Maintenance
5. Theory of Jobs and Processes
6. Shop Management

##### **Trade Science**

1. Principles of joints and construction
2. Principles of finishes and decoration
3. Principles of finish removal
4. Principles of neutralization

5. Principles of application
6. Principles of oxidation subject to temperature and air circulation
7. Principles of color mixing
8. Principles of sanding and rubbing

**Other Workplace Skills**

1. Sexual Harassment Prevention Training – must comply with section 201-g of the Labor Law

144 Hours of Related Instruction are Required for Each Apprentice for Each Year.

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