NEW YORK STATE
DEPARTMENT OF LABOR

APPENDIX A

CABINETMAKER

D. O. L. CODE 660.280.010

WORK PROCESSES

Approx. Hours

A. HELPING MACHINE OPERATOR (Remains essentially the same) 800

1. Taking away stock from:
    a. Rip and cutoff saws
    b. Sticker/four sided planer and molder
    c. Planer
    d. Drum sander
    e. Stroke sander
    f. Veneer press
    g. Double end tenoner
    h. Table/panel saws
    i. Finishing room
2. Cleaning of machines and machine areas
3. Assisting in machine maintenance
    a. Various saws - Replacing worn saw blades
    b. Shapers and molders - Maintaining order in the storing of the cutters
    c. Double end tenoners - Cleaning, oiling, and aligning the tracks
    d. Various sanders - Aligning and changing belts
    e. Veneer layout - Maintaining an orderly area
    f. Veneer press - Cleaning glue rollers and the press
    g. Overhead routers - Maintaining order in work area
    h. Drill press and horizontal borers - Adjusting & oiling
4. General helper to journeymen

B. VENEER ROOM (Replaces 'Helping in Lumber Yard') 800

1. Maintaining order in storage of veneer flitches
2. Helping examine veneers for selection
3. Helping clip veneers to size
4. Learning to identify different woods
5. Helping to 'sew' leaves into faces
6. Learning about the different veneer matches
7. Learning about balancing face and back veneers
8. Helping with the press
9. Learning about veneering glue
10. Learning about veneer press pressure and temperature
11. Handling and stacking pressed panels
12. Learning about panel stability

C. SANDING ROOM (Remains essentially the same) 500

1. Learning names and uses of sanding machines
2. Learning different grits used and results obtained
3. Learning about different abrasive minerals and their characteristics
4. Tearing and mounting sanding sheets
5. Mounting belts on drum sanders
6. Learning to control the effects of drum sanding

7. Making sanding forms
8. Sanding moldings with a molding sanding machine
9. Adjusting and maintaining the molding sander
10. Operating other sanders including the:
    a. Stroke sander
    b. Edge sander
    c. Polishing machines
    d. Hand power sanders
11. Care and maintenance of all sanding machines

D. OPERATOR & ASSISTANT SETUP (Remains essentially the same) 800
1. Assisting in the operation of... and operating
    a. Cut off saws
    b. Rip saws
    c. Jointers
    d. Planers
    e. Stickers/molders
    f. Rough panel saw
    g. Finish panel saw
    h. Shapers
    i. Overhead routers
    j. Double end tenoners
    k. Drill press
    k. Boring machine
    l. Dovetailing machine
2. Helping set up all machines
3. Helping cut and grind custom shaper knives
4. Helping in general upkeep and repairs of all machines

E. WORKING IN WAREHOUSE (Remains the same) 600
1. Handling finished work
2. Wrapping finished work
3. Packing the truck
4. Checking shipping tickets

F. HELPING IN CABINET ROOM (The same with additions) 500
1. Trucking work to journeyworkers
2. Helping bench workers set up operations
3. Maintaining order
4. Helping clamp

G. INSPECTION (Essentially the same - with some added items) 800
1. Parts inspection for:
    a. usability of lumber
    b. defects in machining
    c. defects in veneer work
    d. poor sanding
    e. poor sub-assembly fit
2. Final inspection for:
    a. damage in handling
    b. defects in workmanship
    c. bad sanding
    d. improper staining & finish
    e. improper packing

H. FINISH ROOM (H & I are grouped here) 500
1. Sanding between finish coats
2. Helping finisher handle pieces
3. Stacking pieces for drying
4. Staining
5. Spraying finish
6. Rubbing and polishing

I. WORKING ON SUB-ASSEMBLY (Essentially the same) 1000
1. Assembling
    a. minor parts
    b. drawers
2. Gluing and clamping sub-parts
3. Doweling
4. Dovetailing
5. Hand sanding

J. CASE ASSEMBLY (See also F. HELPING IN CABINET ROOM) 800

1. Gluing and clamping case work
2. Attaching minor parts to case work
3. Attaching hardware
4. Attaching doors
5. Installing drawers

K. GENERAL MAJOR ASSEMBLY (Changed to reflect today's activities) 800

1. Assembly of components into large displays
   a. Fitting assembled parts together
   b. Attaching mechanical fasteners
   c. Modifying components for ease of field assembly

L. FINAL FITTING (Essentially the same) 500

1. Adjusting drawers
2. Installing hardware after finishing
3. Adjusting doors
4. Touch up and repair

M. FIELD WORK (New area of training) 800

1. Delivery of finished work
2. Assisting taking field measurements
3. Assisting in doing field layout

N. OFFICE (New area of training) 800

1. Drafting
2. Stock listing
3. Take-offs for estimating

Total Hours: 10000

The following is a chronological outline of shop training over a five year period.

1st Year

500 hrs. - Sanding and preparation of pieces for finishing
500 hrs. - Preparation of finished parts for shipping
500 hrs. - Helping machine operators in handling large panels and in stacking material
500 hrs. - Helping bench personnel clamp and assemble cabinetry

2nd Year

500 hrs. - Rough stock cutting
500 hrs. - Milling and sticker helper
500 hrs. - Helping with and operating a panel sander
500 hrs. - Rough panel cutting in preparation for the veneer press

3rd Year

500 hrs. - Helping operate the veneer press
500 hrs. - Helping layout and stitch veneers
1000 hrs. - Bench work and assembly

4th Year

500 hrs. - Finished panel saw
500 hrs. - Overhead router
500 hrs. - Double end tenoner
500 hrs. - Shaper

5th Year

500 hrs. - Sanding and spraying in the finishing department
500 hrs. - Drafting and detailing
500 hrs. - Stock listing
500 hrs. - Estimating takeoffs

APPENDIX B

CABINET MAKER

RELATED INSTRUCTION

Blueprint Reading and Drawing
- Elementary Blueprint Reading
- Freehand Sketching
- Cabinet Drawing and Design
- Furniture Design
- Pattern and Template Layout

Mathematics
- Fundamentals
- Trade Mathematics
- Estimating
- Use of Handbooks, Tables, References
- Stock Bill Preparation
- Cutting Sheet Preparation

Safety (16 Hours)
- Fundamentals (4 Hours First Year)
- Trade Safety (12 Hours Second Year)

Industrial and Labor Relations (20 Hours)
- History and Background (6 Hours First Year)
- Current Laws and Practices (14 Hours Second Year)

Trade Theory and Science Related to:
- Materials of the Trade
- Care of Tools and Equipment
- Machine Tools
- Strength of Materials
- Power Transmission
- Furniture Finishing

Other Related Courses
- Period Furniture
- Production Planning
- Production Records
- Inspection

Other Courses as Necessary

Safety & First Aid - Minimum 10 Hours Per Year

144 Hours of related instruction are required for each apprentice for each year.

NEW YORK STATE DEPARTMENT OF EDUCATION

PROPOSED STRUCTURE FOR A FIVE YEAR
CABINETMAKING APPRENTICE PROGRAM

This proposed course of training is intended to provide in-depth auxiliary knowledge and safe practical skills with the tools, machines, and techniques employed in today's cabinetmaking industry.

The complete program will be composed of ten 80 hour courses with an additional course of Health and Safety related material and information valuable to cabinetmakers.

Semester # 1 - Basic Competencies I for Cabinetmakers
Introduction to tools, materials, drawing concepts, and manipulative skills as used in the industry shops.

Semester # 2 - Basic Competencies II for Cabinetmakers
Using advanced hand skills to build more complicate projects from shop drawings with an emphasis on understanding the order with the fabrication process occurs.

Semester # 3 - Basic Drafting and Math Skills
Introduction to the skills required to draft and stockbill shop drawings with an introduction to the math required to layout geometric patterns.

Semester # 4 - Introduction to Machining and Machine Maintenance and Safety
Introduction to the techniques required to safely use and maintain the large machines used in the shops.

Semester # 5 - Materials and Hardware of Today's Cabinetmaking Industry
Introduction to the lumbers, substrates, laminates, fabrics, leathers, and metals used in the fabrication of today's "woodwork".

Introduction to various types of hardware, the function of each type, and the techniques required for their installation.

Semester # 6 - Veneers and Veneer Application
Introduction to veneers and the techniques of handling, cutting, matching, pressing, and repairing veneers and veneered panels.

Semester # 7 - Solid Surface Fabrication
Introduction to the processes, techniques, tools, and adhesives used in the fabrication of solid surface counters.

Semester # 8 - Advanced Machine Work and Assembly
Development of sophisticated techniques used in machining various materials with an emphasis on safe work habits efficiency of production.

Semester # 9 - Staining and Finishing
Introduction to the tools, techniques, and processes required to produce the finishes demanded by architects today. This course includes training in the preparation of surfaces to be finished, the proper uses of the different types of abrasive papers, and the safe use and handling of the stains and chemical finishes.

Semester # 10 - Stair building
Introduction to the process of laying out and fabricating staircases with open and closed stringers with the fabrication of a bull nosed first riser.

First Aid - minimum 6.5 hrs. every 3 years

Sexual Harassment Prevention Training - minimum 3 hours