



STATE OF NEW YORK
DEPARTMENT OF LABOR

APPENDIX A

PATTERNMAKER (WOOD)
D.O.T. CODE 661.281.022

This training outline represents a minimum standard in terms of Work Processes and Related Instruction which are required to achieve skilled worker status. It is recognized that rapid technological and regulatory changes will frequently result in the need for mastery of additional on-the-job skills or theoretical instruction.

WORK PROCESSES

	<u>Approximate Hours</u>
A. <u>Working in Foundry (if available)</u>	175
Helping molder Helping coremaker	
B. <u>Working in Foundry Pattern Loft (if available)</u>	175
Delivering patterns to foundry Storing patterns Marking patterns	
C. <u>Care of Tools and Equipment</u>	500
D. <u>Simple Flat Work</u>	750
Glue joints, shellacking, finishing and selection of stock. Building, gating, down sprues and risers. Adding vents and vacuum holes to parting boards and patterns. Mounting and matching patterns.	
E. <u>Varnishing, Sanding and Finishing Patterns</u>	500
F. <u>Operations of Machines</u>	1,800
Rip and crosscut saws Band Saw Jointer Lathe Sander	

Patternmaker (Wood) – continued

Approximate Hours

F.	<u>Operations of Machines</u> – continued	
	Drill Press	
	Router	
G.	<u>Segment work, rough cut, shape, glue and nail segments</u>	1,000
H.	<u>Heavy Construction Patterns</u>	1,800
I.	<u>Cylindrical Patterns</u>	950
	Solid straight core	
	Split straight cores	
	Stave work	
J.	<u>Layout and Bench Work</u>	1,450
	Build up	
	Cut from solid	
	Split	
	Simple core work	
K.	<u>Construction of plastic and urethane patterns</u>	200
L.	<u>Negative molds, epoxy and silicone</u>	200
M.	<u>Construction of “no-bake” frames with locator facilities (optional)</u>	50
N.	<u>Miscellaneous</u>	450
	Plaster	
	Master Patterns	
	Cast Gear	
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	Total hours	10,000

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

PATTERNMAKER (WOOD)

RELATED INSTRUCTION

Courses in Safety

Elementary Blueprint Reading

Pattern Blueprint Reading

Shop Sketching

Pattern Layout

Fundamentals of Mathematics

Patternmaking Mathematics and Problems

Patternmaking Technology

Materials, terms, processes of trade

Fundamental Principles

Patternmaking

Coremaking

Foundry Practice

Trade Science and Trade Theory

Chemistry of Materials

Metallurgy

Physics

Machine and Pattern

Industrial and Labor Relations

First Aid – minimum 6.5 hours every 3 years

Sexual Harassment Prevention Training – minimum 3 hours

Other Related Courses as Necessary

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