A.

Approximate Hours

600



APPENDIX A

MAINTENANCE MECHANIC (AUTOMATIC EQUIPMENT)

D.O.T. CODE 638.281-014 O*NET CODE 49-9041.00

As Revised for Council of Industry

This training outline is the current standard for Work Processes and Related Instruction. Changes in technology, regulations, and safety & health issues may result in the need for additional on-the-job or classroom learning.

WORK PROCESSES

Preliminary Machine Familiarization and Workplace Health and Safety

Adjusting and familiarization with machines 1. Proper use and operation of tools, equipment, 2. and fixtures Familiarity with shop operations, procedures, 3. maintenance schedules 4. Safety Compliance Lock-Out/Tag-Out 5. Handling Hazardous Materials (if applicable) 6. **NEC Safety Regulations** 7. B. Basic Maintenance 1000 1. Oiling, greasing and lubricating machinery Cleaning machines and other equipment 2. **EFFECTIVE** APPRENTICE TRAINING Performing basic diagnostic tests and checking 3. performance JUN 2 9 2018 Testing damaged machine parts 4. Detecting minor problems 5. CENTRAL OFFICE Disassembling and assembling machinery/ 6. . ATP 56-320 (01/2009) **Apprentice Training Section**

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	7.	Temperature monitoring (if applicable)	
C.	Preventive and Predictive Maintenance		1000
	1.	Maintaining peak operating condition of industrial machinery/equipment	
	2.	Learning problems and repairs to be made to specific machines	
	3.	Performing preventive maintenance schedules	
	4.	Keeping appropriate records (including computerize records)	d
D.	Machine Shop		250
	. 1.	Working safely with machine tools	
	2.	Operating machine tools such as: drill, lathe,	
		mill and grinder to make replacement parts	
		for production machines/equipment	
E.	Troubleshooting		3000
	1.	Diagnosing major problems in machinery	
	2.	Analyzing results	
	. 3.	Repairing or replacing broken parts	
	4.	Inspecting, repairing, testing	
	5.	Reassembling	•
F.	Welding and Fabrication		250
	1.	Following all safety procedures and policies	·
	2.	Accurately reading blueprints, sketches, diagrams,	
		technical manuals	
	3.	Welding in connection with the trade	
G.	Rigging and Installing		250
	1.	Inspecting, repairing, operating cranes and cables	
	2.	Installing machines/equipment	
	3.	Aligning machines/equipment	
Н.	Electrical (optional*)		1150
	1.	Reading schematics	Strongage annual and
	2.	Installing electrical devices	EFFECTIVE APPRENTICE TRAINING
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- 3. Identifying problems in electrical systems and controls
- 4. Troubleshooting AC and DC systems
- 5. Using computerized diagnostic systems
- I. <u>Miscellaneous</u> (Fluid Systems and Associated Piping)

500

- 1. Understand basic operations of fluid power systems
- 2. Understand basic operations of hydraulic systems and pumps
- 3. Understand basic operations of pneumatic systems and Compressors
- 4. Understand basic operations of steam-powered systems

TOTAL HOURS

8000

*If optional Work Processes are not selected, the hours should be devoted to further mastery of the required Work Processes.

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.

APPRENTICE TRAINING

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APPENDIX B

MAINTENANCE MECHANIC (AUTOMATIC EQUIPEMENT)

RELATED INSTRUCTION

Safety and Health

General Workplace Safety

Proper Use of Personal Protective Equipment (PPE)

Fall Protection

Ladder Safetv

Proper Lifting Techniques

Right-To-Know/ Safety Data Sheets (SDS)

Annual Hazard Material Communication Training

Respirator Training, including Fit Test (if applicable)

Fire Extinguisher Training (if applicable)

Equipment Safe Operating Practices

Confined Space Training (if applicable)

Working around Machines

Welding Safety

First Aid - minimum 6.5 hours every 3 years

Blueprints

Fundamentals of Blueprint Reading

Machine Blueprint Reading

Advanced Blueprint Reading

Reading Schematics (if applicable)

Fundamentals of Electronics and Computer Programming (if applicable)

Mathematics

Fundamentals

Elementary Applications to the Trade

Advanced Applications to the Trade

Using Technical Manuals and Procedures

Precision Measurement

Trade Theory and Science

Materials of the Trade

Tools, Machines and Equipment

Care, Maintenance and Operation

Terminology

Technology of Jobs, Operations and Processes

Layout and Production Methods

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