

Received,
Apprenticeship Unit
JUN 1 8 2018
ROCHESTER

APPENDIX A

MAINTENANCE MECHANIC (AUTOMATIC EQUIPMENT)

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

As Revised for RTMA, The Rochester Technology and Manufacturing Association

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

Approximate Hours

A. <u>Preliminary Machine Familiarization</u> and Workplace Health and Safety

- 1. Adjusting and familiarization with machines
- 2. Proper use and operation of tools, equipment, and fixtures
- 3. Familiarity with shop operations, procedures, maintenance schedules
- 4. Safety Compliance
- 5. Lock-Out/Tag-Out
- 6. Handling Hazardous Materials (if applicable)
- 7. NEC Safety Regulations

B. Basic Maintenance.

- 1. Oiling, greasing and lubricating machinery
- 2. Cleaning machines and other equipment
- 3. Performing basic diagnostic tests and checking performance
- 4. Testing damaged machine parts
- 5. Detecting minor problems
- 6. Disassembling and assembling machinery/

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	equipment			
5.5	7. Temperature monitoring (if applicable)			
C.	Preventive and Predictive Maintenance	1000		
		y y		
	1. Maintaining peak operating condition of	400		
	industrial machinery/equipment			
	2. Learning problems and repairs to be made to	Si .		
	specific machines	<i>i</i> *		
	specific machines	•		
	3. Performing preventive maintenance schedules			
	4. Keeping appropriate records (including computerized	5-		
	records)	2**		
1	Machine Chen	250		
D.	Machine Shop	200		
		3 8 10		
	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			
		7		
17	Troubleshooting	3000		
E.	Troubleshooting			
	1. Diagnosing major problems in machinery	as a		
	2. Analyzing results			
	3. Repairing or replacing broken parts	, a		
	4. Inspecting, repairing, testing			
	5. Reassembling	1 - V		
	W. L. Company of Paragraphy	250		
F	Welding and Fabrication	® 250		
		=72		
	 Following all safety procedures and policies 			
	2. Accurately reading blueprints, sketches, diagrams,	11.00		
	technical manuals			
	3. Welding in connection with the trade	100		
	J. Wolding in connection with the trans	#" 5		
٦.	Distinct and Installing	250 Received		
3.	Rigging and Installing	Apprenticeship Ur		
	1. Inspecting, repairing, operating cranes and cables	JUN 1 8 2018		
	2. Installing machines/equipment	13 & &		
	3. Aligning machines/equipment	ROCHESTER		
		1150		
I.	Electrical (optional*)	, 1150		
		EFFECTIVE		
	1. Reading schematics	APPRENTICE TRAINING		
	2. Installing electrical devices			
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- 3. Identifying problems in electrical systems and controls
- 4. Troubleshooting AC and DC systems
- 5. Using computerized diagnostic systems

L. <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.

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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 Safety

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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New York State Education Department Page 4 Cutting Tools and Abrasives
Tool, Die, Jig and Fixture Design
Metallurgy
Electrical Controls and Basic Electronics (optional)
Electric Circuits and Programmable Logic Controllers (PLCs)
Welding (certification as required)
Brazing and Soldering

Other Workplace Skills

Communication Skills
Team Work Skills
Logic and Reasoning Skills (Critical Thinking)
Active Listening Skills
Industrial and Labor Relations
Sexual Harassment Prevention Training – minimum 3 hours

Other Related Courses as Necessary

A minimum of 144 hours of Related Instruction is required for each apprentice for each year.

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