

**For L&I Staff Use Only**

<i>Received 06/03/2024 CA</i>	<i>Teri Gardner 6-3-24</i>
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Department of Labor and Industries  
 Apprenticeship Section  
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# Request for Revision of Standards

TO: Washington State Apprenticeship & Training Council  
 FROM: IAM/Boeing Joint Apprenticeship Committee # 154

Please update our Standards of Apprenticeship to reflect the following changes:

- Additions shall be underlined (underlined).
- Deletions shall be struck through (~~struck through~~).
- See attached.

**Form must be signed by Committee Chair and Secretary or Program's Authorized Signer**

<input type="checkbox"/> Chair	Date	<input type="checkbox"/> Secretary	Date
<input checked="" type="checkbox"/> Authorized Signer	6/32024		
Print Name: Raymond Miller	Print Name:		
Signature: <i>Raymond Miller</i>	Signature:		

Approved By: <b>Washington State Apprenticeship &amp; Training Council</b>
Signature of Secretary of the WSATC:
Date:

*Attach additional sheets if necessary*

**VIII. WORK PROCESSES:**

<b>G. <u>Machinist:</u></b>		<b><u>Code</u></b>	<b><u>Hours</u></b>
1.	<del>E.D.M.*</del>	<del>B</del>	<del>160</del>
2.	<del>Bench Work</del>	<del>C</del>	<del>240</del>
3.	<del>Drill Press</del>	<del>D</del>	<del>80</del>
4.	<del>Programming</del>	<del>E</del>	<del>280</del>
5.	<del>Heat Treat</del>	<del>F</del>	<del>160</del>
6.	<del>Elementary Layout</del>	<del>G</del>	<del>160</del>
7.	<del>Conventional Engine Lathe</del>	<del>H</del>	<del>480</del>
8.	<del>CNC Lathe</del>	<del>I</del>	<del>800</del>
9.	<del>Tool and Cutter Grind</del>	<del>J</del>	<del>320</del>
10.	<del>Advanced Layout/CMM**</del>	<del>K</del>	<del>640</del>
11.	<del>Conventional Milling Machine</del>	<del>L</del>	<del>560</del>
12.	<del>Shop CAD/CAM</del>	<del>M</del>	<del>320</del>
13.	<del>Surface Grinding</del>	<del>N</del>	<del>160</del>
14.	<del>External Grinding</del>	<del>O</del>	<del>240</del>
15.	<del>Internal Grinding</del>	<del>P</del>	<del>120</del>
16.	<del>Horizontal Boring Mills</del>	<del>R</del>	<del>520</del>
17.	<del>Jig Bore/Jig Grind</del>	<del>S</del>	<del>280</del>
18.	<del>NC/CNC Milling</del>	<del>T</del>	<del>1840</del>
<b>TOTAL HOURS:</b>			<b>7360</b>

~~\*—— Electromagnetic Discharge Machine~~  
~~\*\*—— Coordinate Measuring Machine~~

**G. Machinist:**

		<u>Code</u>	<u>Hours</u>
1.	<u>E.D.M.*</u>	<u>A</u>	<u>120</u>
2.	<u>Assembly</u>	<u>B</u>	<u>400</u>
3.	<u>Inspection</u>	<u>C</u>	<u>400</u>
4.	<u>Programming-Enovia/Mastercam</u>	<u>D</u>	<u>360</u>
5.	<u>Heat Treat</u>	<u>E</u>	<u>80</u>
6.	<u>Basic Layout</u>	<u>F</u>	<u>160</u>
7.	<u>Turning: Conventional/NC/CNC</u>	<u>G</u>	<u>1000</u>
8.	<u>Grinding</u>	<u>H</u>	<u>160</u>
9.	<u>Tool and Cutter Grind</u>	<u>I</u>	<u>200</u>
10.	<u>Advanced Layout</u>	<u>J</u>	<u>304</u>
11.	<u>Milling: Conventional/NC/CNC</u>	<u>K</u>	<u>2400</u>
12.	<u>Tankline</u>	<u>L</u>	<u>80</u>
13.	<u>Shotpeen</u>	<u>M</u>	<u>160</u>
14.	<u>Drilling</u>	<u>N</u>	<u>120</u>
15.	<u>Straightening/Forming</u>	<u>O</u>	<u>160</u>
16.	<u>Horizontal Boring Mills</u>	<u>P</u>	<u>400</u>
17.	<u>Jig Bore</u>	<u>Q</u>	<u>216</u>
18.	<u>Saw</u>	<u>R</u>	<u>40</u>
19.	<u>Deburr</u>	<u>S</u>	<u>80</u>
20.	<u>3D-Printing</u>	<u>T</u>	<u>520</u>

**TOTAL HOURS: 7360**

\* Electromagnetic Discharge Machine

**H. Maintenance Machinist:**

		<u>Code</u>	<u>Hours</u>
1.	<u>Maintenance Machining</u>	<u>A</u>	<u>3460</u>
2.	<u>Milling Machines</u>	<u>B</u>	<u>840</u>
3.	<u>Lathes</u>	<u>C</u>	<u>680</u>
4.	<u>Drill Press</u>	<u>D</u>	<u>80</u>
5.	<u>Grinders</u>	<u>E</u>	<u>200</u>
6.	<u>Boring Mills</u>	<u>F</u>	<u>200</u>
7.	<u>Heat Treat</u>	<u>G</u>	<u>140</u>
8.	<u>Tool Grind</u>	<u>H</u>	<u>220</u>
9.	<u>Layout</u>	<u>I</u>	<u>180</u>
10.	<u>NC/CNC Milling</u>	<u>J</u>	<u>640</u>
11.	<u>Precision Inspection</u>	<u>K</u>	<u>120</u>
12.	<u>Floor Maintenance</u>	<u>M</u>	<u>440</u>
13.	<u>Spindle Shop</u>	<u>N</u>	<u>160</u>

**TOTAL HOURS: 7360**

**H. Maintenance Machinist:**

	<b><u>Code</u></b>	<b><u>Hours</u></b>
1. <b>Maintenance Machining</b>	<b>A</b>	<b>2680</b>
2. <b>Conventional Mills</b>	<b>B</b>	<b>840</b>
3. <b>Conventional Lathes</b>	<b>C</b>	<b>680</b>
4. <b>E.D.M *</b>	<b>D</b>	<b>160</b>
5. <b>Grinding</b>	<b>E</b>	<b>600</b>
6. <b>Boring Mills</b>	<b>F</b>	<b>200</b>
7. <b>Heat Treat</b>	<b>G</b>	<b>160</b>
8. <b>Cutting Grind</b>	<b>H</b>	<b>240</b>
9. <b>Basic Layout</b>	<b>I</b>	<b>160</b>
10. <b>NC/CNC Milling</b>	<b>J</b>	<b>640</b>
11. <b>Inspection</b>	<b>K</b>	<b>120</b>
12. <b>Floor Maintenance</b>	<b>L</b>	<b>720</b>
13. <b>Spindle Shop</b>	<b>M</b>	<b>160</b>

**TOTAL HOURS: 7360**

\* **Electromagnetic Discharge Machine**