

Department of Labor & Industries  
Apprenticeship Section  
PO Box 44530  
Olympia WA 98504-4530



## REQUEST FOR REVISION OF STANDARDS

<i>O.M</i>
L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

From: IAM/Boeing Joint Apprenticeship Committee (#154)

(NAME OF PROGRAM STANDARDS)

See attached:

RECEIVED BY L&I AC:

3/28/16 OM

E-MAIL RECEIVED BY  
CENTRAL OFFICE:

3/29/16 KR

Chair Laurens Wood <i>Laurens Wood</i>	Approved by: Washington State Apprenticeship & Training Council
Secretary Shelley Wilson <i>Shelley Wilson</i>	Secretary of WSATC:
Date: 3/23/2016	Date:

attach additional sheets if necessary

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Attachment to Request for Revision of Standards, July 2016

TO: Washington State Apprenticeship & Training Council

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*Change to read:*

VIII. WORK PROCESSES:

B. Composite Manufacturing Technician:

	Code	Hours
1. Lay-up/Hand Lay-up	A	540
2. Kitting/AGFM*	B	240
3. CTLM**	C	480
4. Drape Forming	D	200
5. Fiber Placement	E	480
6. Noodle Fabrication	F	80
7. Debug/Tool Prep/Clean/Mold Release	G	200
8. Autoclave	I	420
9. Oven	J	80
10. Automated Water Jet	K	320
11. NC/CNC Machine Trim (Routers)	L	760
12. Extrusion Mills	M	200
13. Hand Trim	N	280
14. Assembly/Drilling	P	590
15. Tracker Leveling/Laser Radar	Q	820
16. Blue Streak Layout	R	320
17. Tooling Repair/LM Rework	S	120
18. Composite Repair	T	1150
19. Inspection (QA)	U	80

TOTAL HOURS: 7360

\* American General Fiber-placement Machine

\*\* Contoured Tape Laminating Machine

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K. NC Skin Mill Operator:

	Code	Hours
1. Material Store	A	40
2. NC/CNC Spar Mill	B	600
3. High Speed Plate Mills	C	980
4. Hand Sand: Skins	E	200
5. Skin Sanding Machine	F	200
6. Chip Form	G	160
7. Layout/SPC	H	400
8. Conventional Milling	I	420
9. Heat Treat	J	40
10. Tool & Cutter Grinder	K	220

11. NC/CNC Milling/Skin Mills	L	1660
12. Crane Operation	M	160
13. Shot Peen/Forming	N	480
14. Checking Fixture	O	180
15. Hand Work	P	200
16. Anodize Tank Line	Q	160
17. Assembly and Prep	R	120
18. Spar/Skin Kitting	S	80
19. Cutting Tool Development	T	130
20. Cutter Set-up	U	130
21. Tooling	V	300
22. Tool Set-up	W	80
23. NC/CNC Double Plus Chord Mills	X	420

TOTAL HOURS: 7360

L. NC Spar Mill Operator:

	Code	Hours
1. Material Store	A	40
2. NC/CNC Spar Mill/Drill Router/Milling	B	2000
3. Hand Sand – Spar	E	200
4. De-Burr Machine	F	80
5. Forming – Straightening	G	480
6. Layout	H	400
7. Conventional Milling	I	720
8. Heat Treat	J	40
9. Tool and Cutter Grinder	K	220
10. Skin Mills	L	800
11. Hand Sand – Skins	M	120
12. Crane Operation	N	160
13. Shot Peen	O	480
14. Checking Fixture	P	120
15. Hand/Work	Q	160
16. Tank Line	R	160
17. Assembly and Prep	S	120
18. Spar/Skin Kitting	T	80
19. Cutting Tool Development	U	130
20. Cutter Set-Up	V	130
21. Tool Set-Up	X	80
22. NC/CNC Double Plus Chord Mills	Y	640

TOTAL HOURS: 7360

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