

For L&I Staff Use Only	
<i>Received 11/18/2024 CA</i>	<i>Teri Gardner 11-18-24</i>
L&I Apprenticeship Consultant	L&I Admin

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



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	11/14/2024		
Print Name: Raymond Miller	Print Name:		
Signature: <i>Raymond Miller</i>	Signature:		

Approved By: Washington State Apprenticeship & Training Council
Signature of Secretary of the WSATC:
Date:

Attach additional sheets if necessary

Occupational Objective(s):

Painter Finisher (Aerospace)

SOC#

51-9124.00

Term [WAC 296-05-015]

7360 HOURS

IV. TERM OF APPRENTICESHIP:

The term of apprenticeship will be 7,360 hours of reasonably continuous employment and experience in the principal operations of the trade for the following occupations:

Painter Finisher (Aerospace)

V. INITIAL PROBATIONARY PERIOD:

For the 7,360 hours apprenticeship programs, the 20% probationary period is 1,472 hours. These programs are:

Painter Finisher (Aerospace)

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VII: APPRENTICE WAGES AND WAGE PROGRESSION:

C. Wage Progression Schedules

For Blue Streak Mechanic; Composite Manufacturing Technician; Jig & Fixture Tool Maker; Machinist; Metal Structures Technician; NC Spar Mill Operator; Painter Finisher (Aerospace); Tool & Cutter Grinder; and Quality Assurance Inspector programs.

VIII. WORK PROCESSES:

R. Painter Finisher (Aerospace):

	<u>Code</u>	<u>Hours</u>
<u>1.</u> <u>Hazardous Chemicals</u>	<u>A</u>	<u>60</u>
<u>2.</u> <u>PPE Familiarization</u>	<u>B</u>	<u>60</u>
<u>3.</u> <u>Equipment Setup</u>	<u>C</u>	<u>60</u>
<u>4.</u> <u>Stacker/Manlift Use</u>	<u>D</u>	<u>120</u>
<u>5.</u> <u>Mixing</u>	<u>E</u>	<u>240</u>
<u>6.</u> <u>Part Protection</u>	<u>F</u>	<u>720</u>
<u>7.</u> <u>Paint Prep</u>	<u>G</u>	<u>1400</u>
<u>8.</u> <u>Painting</u>	<u>H</u>	<u>1400</u>
<u>9.</u> <u>Graphic Layout & Decorative Markings/Masking</u>	<u>I</u>	<u>1400</u>
<u>10.</u> <u>Rework Strategies</u>	<u>J</u>	<u>500</u>
<u>11.</u> <u>Decals</u>	<u>K</u>	<u>240</u>
<u>12.</u> <u>Stencils & Maintenance Markings</u>	<u>L</u>	<u>480</u>
<u>13.</u> <u>Drawings</u>	<u>M</u>	<u>480</u>
<u>14.</u> <u>PSDS*</u>	<u>N</u>	<u>80</u>
<u>15.</u> <u>CMES**</u>	<u>O</u>	<u>120</u>
	<u>TOTAL HOURS:</u>	<u>7360</u>

* Product Standards Data System

** Common Manufacturing Execution System

IX. RELATED/SUPPLEMENTAL INSTRUCTION:

C. Additional Information:

- 1. Apprentices will be provided with a minimum of 144 hours of RSI per year, up to a total of 590 hours over the course of their apprenticeship, unless otherwise directed by the committee for the occupation of Painter Finisher (Aerospace). [Number remaining RSI per year variance statements approved on 01/15/2015 accordingly]**

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Rec'd EA 11-18-24
Received 12/20/2024 EA
L&I Apprenticeship Consultant

Teri Gardner 11-18-24
Teri Gardner 12-23-24
L&I Admin

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Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name IAM/Boeing Joint Apprenticeship Committee	
Occupation Painter Finisher (Aerospace)	
Term/OJT Hours 7360 Hours	Total RSI Hours 590 Hours
Training Provider Boeing	

By the signature placed below, the **program sponsor** agrees to provide the prescribed RSI for each registered apprentice and assures that:

1. The RSI content and delivery method is and remains reasonably consistent with the latest occupational practices, improvements, and technical advances.
2. The RSI is coordinated with the on-the-job work experience.
3. The RSI is provided in safe and healthful work practices in compliances with WISHA and applicable federal and state regulations.
4. The RSI Plan is maintained, updated and submitted to the Department a minimum of once every 5 years (WSATC Policy 2015-01; rev, 10-21-21).
5. The RSI will be conducted by instructors who meet the qualification of the "competent instructor" as described in WAC 296-05-003:
 - a. Has demonstrated a satisfactory employment performance in her/her occupation for a minimum of three years beyond the customary learning period for that occupation; and
 - b. Meets the State Board for Community and Technical Colleges requirements for a professional technical instructor (see WAC 131-16-080 through -094), or be a subject matter expert, which is an individual, such as a journey worker, who is recognized within the industry as having expertise in a specific occupation; and
 - c. Has training in teaching techniques and adult learning styles, which may occur before or within one year after the apprenticeship instructor has started to provide the related technical instruction.
6. If using alternative forms of instruction, such as correspondence, electronic media, or other self-study, instruction shall be clearly defined.

Signatures on next page

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

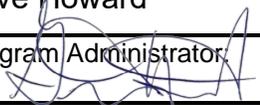
<input type="checkbox"/> Chair	Date	<input type="checkbox"/> Secretary	Date
<input checked="" type="checkbox"/> Authorized Signer	11/15/2024		
Print Name: Raymond Miller		Print Name:	
Signature: <i>Raymond Miller</i>		Signature:	

Training Provider Signature

Approved By (Print Name): Shelley Wilson	Title: BPS Senior Leader
Signature of the Training Provider: Shelley Wilson	
Date: 11/15/2024	

If additional training providers are needed, go to page 4.

SBCTC

Print Name: Genevieve Howard	Title: Policy Associate
Signature of the Program Administrator: 	
Date: 12/30/2024	
<input checked="" type="checkbox"/> SBCTC recommends approval	<input type="checkbox"/> SBCTC recommends return to sponsor

Program Name IAM/Boeing Joint Apprenticeship Committee	Occupational Objective Painter Finisher (Aerospace)
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Note: The description of each element must be in sufficient detail to provide adequate information for review by the SBCTC and Review Committee. To add more elements, click on the plus sign that appears below the "Description of Element/Course" field.

Describe minimum hours of study per year in terms of (check one):

- 12-month period from date of registration.
 Defined 12-month school year.
 2,000 hours of on-the-job training.

Element/Course: Business Communications in Manufacturing - year 1	Planned Hours: 50
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will understand and articulate the importance of teamwork and collaboration in manufacturing. They will describe the advantages and challenges of workforce diversity and understand how professionalism and business etiquette benefit them, the company, and customers. They will learn basic computer skills (eg., Microsoft 365), as well as several Boeing proprietary software applications. Apprentices will also employ critical thinking and problem-solving skills in a variety of real-world manufacturing and aviation scenarios.	

Element/Course: Drawing Interpretation for Decorative Painters - year 1	Planned Hours: 20
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will be able to identify key components of drawings used for Boeing airplane decorative exterior paint finish processes. They will describe airplane structural components represented in the drawings. Additionally, Apprentices will be able to describe and demonstrate the processes for looking up and accessing drawings online.	

Element/Course: Surface Preparation and Masking - year 1	Planned Hours: 50
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom (25%) <input checked="" type="checkbox"/> Lab (75%) <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Renton Technical College	
Description of element/course: Apprentices will learn proper spray gun care through a combination of classroom lectures, product seminars by paint company representatives, and shop demonstrations. Techniques for preparing various substrates for top coating are explained and demonstrated. Apprentices will develop a working knowledge of how to prepare and mask repaired areas of a vehicle. Apprentices will demonstrate knowledge of the basic roles of primers and the proper preparation for refinishing topcoat applications. Apprentices will also learn how to locate and interpret material safety data in the workplace.	

Element/Course: Paint Application - year 2	Planned Hours: 50
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom (25%) <input checked="" type="checkbox"/> Lab (75%) <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Renton Technical College	
Description of element/course: In this course Apprentices will become familiar with the proper, safe, and lawful use of topcoat paint products. Using sheet metal panels, Apprentices will demonstrate the proper use of all safety equipment and tools that are required to perform the task of refinishing an automobile. Emphasis will be placed on cleaning procedures, specifically, ensuring a clean vehicle before masking it. Apprentices will demonstrate correct masking procedures, including spray gun selection and cleaning. They will exhibit knowledge and understanding of undercoats and sealers.	

Element/Course: Paint Application II - year 2	Planned Hours: 80
Mode of Instruction (check all that apply) <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will reinforce their skills in typical aviation paint processes and reading/interpreting paint-style drawings. Techniques for prepping and painting entry doors, hatch doors, and door bands will be mastered in this course. Apprentices will demonstrate proficiency in paint application (both roll-on and spray) for airplane wing walkways. They will understand and articulate the time constraints and challenges of the delivery schedule in a production environment. Finally, they will demonstrate skill in a variety of rework scenarios.	

Element/Course: HAZMAT, Personal Safety, and Refinish Safety - year 2	Planned Hours: 30
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom (25%) <input checked="" type="checkbox"/> Lab (75%) <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Renton Technical College	
Description of element/course: Apprentices will demonstrate the correct use of respirators, ear protection, gloves, and eye protection. They will be able to explain the reasons why all bare skin must be covered when spraying refinishing products. Apprentices will demonstrate a working knowledge of the proper way to handle paint and solvents that can be harmful to people and the environment and what to do in case of a hazardous paint spill. Finally, Apprentices will read and comprehend hazardous labels and articulate what they mean.	

Element/Course: Color Mixing, Matching, and Paint Problems - year 3	Planned Hours: 60
Mode of Instruction (check all that apply) <input checked="" type="checkbox"/> Classroom (25%) <input checked="" type="checkbox"/> Lab (75%) <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Lake Washington Institute of Technology	
Description of element/course: As a result of this course Apprentices will gain knowledge on the procedures, product knowledge, and skills needed to properly complete paint mixing and matching procedures. They will learn to identify and resolve paint problems. Apprentices will be able to explain basic color theory. They will demonstrate how to correctly plot solid and metallic colors, as well as match colors and tint base coats. Apprentices will measure, mix, and test viscosity for various paint materials. They will be skilled in creating let-down panels and spray-out cards. Finally, Apprentices will be able to use both manual and electronic color directories for paint colors and safety information.	

Element/Course: Pre-Prime Preparation - year 3	Planned Hours: 50
Mode of Instruction (check all that apply) <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will explore different corrosion protections and processes for refinish preparation. They will learn new masking techniques for faster tape and paper removal. They will demonstrate their ability in preparing bare metal for paint. Apprentices will learn to apply Sol-gel and primer to airplanes, as well as basecoat and clearcoat. They will learn to properly measure and mix paint materials for various applications. Apprentices will verify that the given design is located per drawing tolerances and they will exhibit an understanding of fundamental design layout including such techniques as pulling lines, masking, and blanking out. Finally, they will verify that the finish meets the specified requirements.	

Element/Course: Post-Prime Preparation - year 3	Planned Hours: 50
Mode of Instruction (check all that apply) <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will gain experience in final preparations, blocking, and final sanding processes for topcoat applications. They will learn and show skill in various strategies for painting more than one color at a time. Apprentices will also learn how to use Mylar tools. They will demonstrate proficiency in complex layout procedures (eg., pulling lines, masking, and blanking out) for large premasks of airplanes and proper masking after the premask application.	

Element/Course: Refinishing Equipment Preparation - year 4	Planned Hours: 50
Mode of Instruction (check all that apply) <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will demonstrate mastery of paint shop equipment fundamentals and proper tool selection for various jobs. They will demonstrate spray gun operation, including how to adjust air pressure, fluid delivery, and diagnose paint gun problems. Apprentices will gain additional knowledge on equipment used to paint door hatches and wings.	

Element/Course: Airplane Topcoat Refinishing - year 4	Planned Hours: 50
Mode of Instruction (check all that apply) <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will master techniques for color matching, final masking, and topcoat refinishing. They will exhibit skill in evaluating airplane surface conditions and cleaning the surface prior to refinishing. Apprentices will model the appropriate masking techniques for different paint applications and they will learn how to color sand new paint. Apprentices will also learn to remove and feather existing paint. Finally, Apprentices will be able to apply sealers and clear coats to airplanes.	

Element/Course: Surface Imperfections and Exterior Trim - year 4	Planned Hours: 50
Mode of Instruction (check all that apply) <input type="checkbox"/> Classroom <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Online <input type="checkbox"/> Self-Study Provided by: Boeing	
Description of element/course: Apprentices will learn the difference between stencils and decals, how to locate them, and subsequently verify them per the provided drawings. They will demonstrate mastery in stencil paint application and decal clearcoat application. Apprentices will exhibit proficiency in paint application problem solving, final detailing, decals, and trimming. They will also master a number of techniques for spot repairs and paint blending for different parts of Boeing airplanes including door bands and wings. Finally, Apprentices will understand and demonstrate processes to clean, detail, and care for new finishes, including buffing and polishing surfaces.	

Additional Training Providers (if necessary)



Stephanie Delaney

Print Name Training Provider

Vice President of Instruction

Title of Training Provider

[Click or tap here to enter text.](#)

Print Name Training Provider

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Title of Training Provider

Signature of Training Provider

Renton Technical College

Organization of Training Provider

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