

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 (<u>underlined</u>).
- Deletions shall be struck through (struck through).
- See attached.

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

Chair Chair	Date	Secretary	Date
Authorized Signer	9/5/2023		
		Print Name:	
Raymond Miller			
Signature: Raymond Miller		Signature:	

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

Attach additional sheets if necessary

TROM	J <del>4</del>	
Occupational Objective(s):	SOC#	<u>Term [WAC 296-05-015]</u>
COMPOSITE MANUFACTURING TECHNICIAN	<del>51.9199.99</del> 51-9199.00	
INDUSTRIAL MAINTENANCE FLUID TECHNICIAN	47-2152.00	7360 HOURS
FLIGHT LINE MECHANIC	<u>49-3011.00</u>	7360 HOURS

IAM/Booing Joint Apprenticeshin Committee #154

#### **II : MINIMUM QUALIFICATIONS:**

- Physical: Able to perform the physical requirements of the apprenticeship, with or without reasonable accommodations. For Industrial Electronic Maintenance Technician apprenticeship only, must also be able to distinguish between primary colors.
- Testing: <u>All applicants must complete an assessment or courses at a</u> <u>Community/Technical College, or University, with minimum assessment</u> <u>placement results or equivalent course completions as follows:1. English</u> <u>course 90 or better 2. Intermediate Algebra or better, taken within the</u> <u>last 5 years</u> <u>All applicants must complete an Assessment or Course within the last</u> <u>5 years at their local Washington State college. The applicant must</u> <u>have minimum placement results or course completion as follows:</u> <u>Math Intermediate Algebra, English 90. An assessment may be</u> <u>completed prior to the time of application, but no later than 14 days</u> <u>following a request for document verification.</u>

Other:

FROM

2. All applicants shall qualify by Work experience or by Vocational Training as noted below:

Work Experience: One year of applicable work experience is required for all apprenticeships<u>.</u>, except for Industrial Electronic Maintenance Technician and Tool & Die Maker, which require two years of work experience.

#### **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:

Industrial Maintenance Fluid Technician Flight Line Mechanic

#### V. INITIAL PROBATIONARY PERIOD:

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

Industrial Maintenance Fluid Technician Flight Line Mechanic

#### VII. <u>APPRENTICE WAGES AND WAGE PROGRESSION:</u>

C. Wage Progression Schedules

#### All IAM/Boeing Joint Apprenticeship programs:

For Blue Streak Mechanic; Composite Manufacturing Technician; <u>Industrial Maintenance</u> <u>Fluid Technician</u>, Jig & Fixture Tool Maker; Machinist; Metal Structures Technician; NC Spar Mill Operator; Tool & Cutter Grinder; and Quality Assurance Inspector programs.

Job Code	Step	Hour Range or	Percentage of journey-level
		competency step	wage rate*
AxxA0	1	0000 to 1000 hours	70.78%
AxxA1	2	1001 to 2000 hours	74.11%
AxxA2	3	2001 to 3000 hours	77.44%
AxxA3	4	3001 to 4000 hours	80.70%
AxxA4	5	4001 to 5000 hours	84.01%
AxxA5	6	5001 to 6000 hours	89.52%
AxxA6	7	6001 to 7000 hours	90.65%
AxxA7	8	7001 to 7360 hours	93.93%

For Facilities Crane Maintenance Mechanic; <u>Flight Line Mechanic</u>; Manufacturing Machinist; Machine Tool Maintenance Mechanic; Maintenance Machinist; Model Maker; and NC Skin Mill Operator programs.

Job Code	Step	Hour Range or	Percentage of journey-level
		competency step	wage rate*
AxxA0	1	0000 to 1000 hours	70.95%
AxxA1	2	1001 to 2000 hours	74.26%
AxxA2	3	2001 to 3000 hours	77.75%
AxxA3	4	3001 to 4000 hours	80.88%
AxxA4	5	4001 to 5000 hours	84.21%
AxxA5	6	5001 to 6000 hours	87.52%
AxxA6	7	6001 to 7000 hours	90.84%
AxxA7	8	7001 to 7360 hours	94.19%

## VIII. WORK PROCESSES:

The apprentice shall receive on the job instruction and work experience as is necessary to become a qualified journey-level worker versed in the theory and practice of the occupation covered by these standards. The following is a condensed schedule of work experience, which every apprentice shall follow as closely as conditions will permit. The following work process descriptions pertain to the occupation being defined.

#### A. Blue Streak Mechanic

		<u>Code</u>	<u>Hours</u>
1.	Forming, Joggle Roll/Hydro/Stretch/Brake	Α	750
2.	Drilling/Countersinking	В	<u> 130</u> 40
3.	Machining/NC*/CNC**/Conventional	С	500
4.	Non-Metallic	D	280
5.	Waterjet <u>/Abrasive</u>	Ε	<u>120 240</u>
6.	Assembly	F	<del>1600<u>1000</u></del>
7.	Adhesive Shop Aides/3D Printing	G	<del>120</del> <u>400</u>
8.	CATIA/ENOVIA/REDARS	Н	500
9.	Layout/Lofting	Ι	<u>800_400</u>
10.	Deburr/Polish/Burnish	J	120
11.	Trim	K	500
12.	Finish	L	80
13.	Metallurgy/Heat Treat	Μ	160
14.	Composite	Ν	<del>500<u>200</u></del>
15.	Stylus Cadmium Repair	0	120
16.	Rework/Repair	Р	750
17.	Rotopeen/Flap Peen	Q	40
18.	Inspection	R	<del>250<u>240</u></del>
19.	EDR***-Dent Pull	S	40
<u>20.</u>	Shop Specific	<u>T</u>	<u>1000</u>

#### **TOTAL HOURS:**

7360

**C**. 1.

TT.

\* Numerical Control

\*\* Computer Numerical Control

\*\*\* Electromagnetic Dent Removal

# Q. Industrial Maintenance Fluid Technician:

		<u>Code</u>	<u>Hours</u>
1.	<u>Fuel Farm</u>	<u>A</u>	<u>240</u>
2.	<u>Fitting Pipe / Plumbing and Gas Lines</u>	<u>B</u>	<u>2080</u>
3.	<u>Storm Water System</u>	<u>C</u>	<u>200</u>
4.	<u>Tank Lines</u>	<u>D</u>	<u>900</u>
5.	Waste Treatment	$\mathbf{\underline{E}}$	<u>240</u>
6.	Fire Protection	F	<u>520</u>
7.	<u>Steam Maintenance</u>	<u>G</u>	<u>900</u>
8.	Autoclave	H	360

FROM:	IAM/Bo	eing Joint Apprenticeship Committee #154		
	9. 10. 11. 12. 13. 14.	<u>Backflow / Domestic Water</u> <u>Plant Air</u> <u>Hydronics</u> <u>Repair / Replace Service Plumbing</u> <u>Safety</u> <u>Paint Hangars</u>	I J <u>K</u> L <u>M</u> N	$     \frac{360}{240} \\     \frac{240}{600} \\     \frac{240}{240} \\     \frac{240}{240} $
		TOTAL HOURS:		<u>7360</u>
R.	<u>1.</u> <u>2.</u> <u>3.</u>	<u>ine Mechanic:</u> <u>General Airplane Familiarity</u> <u>Safety / Human Factors</u> <u>Maintenance Forms, Records and System</u> <u>Applications</u> <u>Sheet Metal &amp; Non-Metallic Structures</u>	Code <u>A</u> <u>B</u> <u>C</u> <u>D</u>	<u>Hours</u> 700 <u>80</u> <u>360</u> <u>1000</u>
	<u>5.</u>	<b>Functional Test - Basics</b>	E	<u>3000</u>
	<u>6.</u> 7	Engines Cround One & Servicing	$\frac{\mathbf{F}}{\mathbf{C}}$	<u>380</u>
	4. 5. 6. 7. 8. 9.	<u>Ground Ops &amp; Servicing</u> <u>Remove / Replace / Repair / Rework</u> <u>Miscellaneous</u>	D E F G I J	<u>600</u> <u>840</u> <u>400</u>
		TOTAL HOURS:		<u>7360</u>

#### IX. RELATED/SUPPLEMENTAL INSTRUCTION:

C. Additional Information:

Apprentices will be provided with a minimum of 144 hours of RSI per year, up to a total of 640 over the course of their apprenticeship, unless otherwise directed by the committee, in the following occupations:

<u>Flight Line Mechanic</u> Industrial Maintenance Fluid Technician

(RSI Per Year Variance Approved 01/15/2015)

#### X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

- A. Administrative Procedures:
  - 2. Advanced Standing or Credit: The sponsor may provide for advanced standing or credit for demonstrated competency, acquired experience, training or education in or related to the occupation. All sponsors need to ensure a fair and equitable process is applied to all apprentices seeking advanced standing or credit per WAC 296-05-015(11).
    - a. <u>Credit for Previous Education/Challenge of Curriculum (RSI Only):</u>

1 <u>An apprentice who has previous industry-related education may</u> request credit. An apprentice will be required to submit evidence of equivalent course completion with a minimum of an 80% grade. There is a maximum credit of 50% that may be awarded.

2 <u>To be considered for credit for previous education, apprentices must</u> <u>have successfully completed post-secondary level class(es) in the related</u> <u>subject within the previous five (5) years, have a passing grade of 80% or</u> <u>higher and submit the proper paperwork and any additional requested</u> <u>information prior to consideration by the Apprenticeship Committee.</u> 3 <u>The final decision to grant the apprentice the requested credit, will be</u> <u>made in a fair and equitable manner by the Apprenticeship Committee, after</u> the review of submitted documentation.

3. Sponsor Procedures:

<u>b.</u> The Committee will determine the apprentice's progress in manipulative skills and technical knowledge, through examination of their records, and by tests or examinations, which may, on occasion, be deemed advisable or necessary.

- <u>b.</u>e. The Committee will assist apprentices in all matters pertaining to their employment as apprentices and in such other personnel matters as the apprentice may bring before them.
- d. The Committee will cooperate with supervisors, managers, human resources, and school in maintaining discipline among apprentices and ensuring their progress.

- e. The Committee will cooperate with the related training school in the preparation, presentation, and revision of related instructional matter.
- **f.**<u>c.</u> The Apprenticeship Coordinator will provide annual reports covering the work of the Apprenticeship Committee to the Company, the Union, and the Washington State Apprenticeship and Training Council as requested.
- d.g. Evaluation during probation:

From the information obtained on the weekly evaluation, the evaluating supervisor will submit, a written monthly report to his or her management. The written monthly report will take into consideration the following factors: mechanical aptitude, attitude, work habits, comprehension, retention, interest, attendance, and the individual's ability to work with other employees. After the written monthly evaluation has been reviewed and approved by the first and second line management, a copy of the evaluation will be forwarded to the IAM/Boeing Apprenticeship Training Office for review by the IAM/Boeing Joint Apprenticeship Committee.

e.h. Probationary Work Schedule:

During the probationary work schedule, the apprentice's shift assignments may be divided between first and second shift.

3. Sponsor Disciplinary Procedures:

# **Disciplinary actions:**

a. Unsatisfactory Progression

A time assessed when the apprentice's progress is not satisfactory. <u>Examples of</u> <u>unsatisfactory progress include, but are not limited to, failure of class, non-</u> <u>reporting of OJT hours, unacceptable program behavior, etc.</u>

- 1) The apprentice shall receive a Notice of Unsatisfactory Progression.\_Prior to unsatisfactory progression notice, the Apprenticeship Coordinators will meet with the apprentice to be sure that all items are documented correctly. <u>The apprentice</u> shall receive a Notice of Unsatisfactory Progression from the Apprenticeship <u>Coordinator and review the matter to develop an Individual Recovery Plan (IRP).</u>
- 2) All Unsatisfactory Progressions will require the apprentice to attend the next regular IAM/Boeing JAC meeting to develop an Individualized Recovery Plan. Unsatisfactory Progressions will require the apprentice to attend an IAM/Boeing JAC meeting to review the IRP.
- 3) During an Unsatisfactory Progression, the apprentice will continue to attend and maintain satisfactory Related Supplemental Instruction progress. If the apprentice is delinquent in RSI, they shall have 30 days to be in good RSI standing. During the 30 days, their RSI lesson requirement will pause. They will be required to continue to go to class and complete their 4 hours of RSI hours a week or more if the apprentice is behind in hours. If the apprentice is delinquent in turning in accurate OJT logs, they shall have 30 days to turn in their OJT logs. If OJT logs have not been received

during unsatisfactory progression, the apprentice will be on disciplinary probation. During an Unsatisfactory Progression status, the apprentice-is expected to continue to attend and maintain normal RSI and OJT requirements.

- 5) If the apprentice does not satisfy the IRP, they could be placed in Disciplinary Probation status.
- b. Disciplinary Probation

A Time assessed when the apprentice's progress continues to remain unsatisfactory, or the apprentice's conduct is unacceptable.

- 1) The apprentice shall receive a 20-Day Notice of intention of disciplinary action per Section X.C. of these Standards. The apprentice shall receive a 20-Day Notice of intention of disciplinary action per Section X.C. of these Standards and attend the next regular IAM/Boeing JAC meeting to review their status.
- 2) All Disciplinary Probation will require the apprentice to attend the next regular IAM/Boeing JAC meeting to review their status. During a Disciplinary Probation, the apprentice will continue to attend and maintain satisfactory Related Supplemental Instruction progress

- 3) During a Disciplinary Probation, the apprentice will continue to attend and maintain satisfactory Related Supplemental Instruction progress. If the apprentice is on Disciplinary Probation due to RSI deficiencies, they shall have 60 days to be in good RSI standing. During the 60 days, their RSI lesson requirement will pause. They will be required to continue to go to class and complete the 4 hours of their required RSI per week or more if deemed needed by the committee. If the apprentice is delinquent in turning in accurate OJT logs, they shall have 60 days to turn in their OJT logs. A third disciplinary probation may be reason for the apprentice to be cancelled from their Apprenticeship Program.
- 4) During Disciplinary Probation, work hours (OJT) shall not be credited towards the apprenticeship program. A disciplinary Probation will end when the identified deficiencies have been corrected.
- 5) During Disciplinary Probation, the apprentice shall continue to report for work, be compensated at his or her current wage rate, and shall be designated work assignments that are equal to or below the current wage rate.
- 6) 5) A third disciplinary probation may alone be reason to cancel the Apprenticeship Agreement.
- 7) 6) A disciplinary Probation will end when the identified deficiencies have been corrected.
  - e. Definitions
- 2) Unsatisfactory Progress RSI: Receiving less than minimum hours or lessons status (defined as 9 or more lessons deficient and/or 8 or more hours deficient); multiple test failures defined as two consecutive failures of a test; a third consecutive failure of a test. Failure of class (below 80%) or multiple test failures defined as two consecutive failures of a test.
- 3) Unsatisfactory Progress Work Performance OJT: Two consecutive monthly grades of less than three (3) or a monthly grade of (1). OJT logs more than 60 days delinquent or turned in after the due date 3 times within a 12-month period. OJT logs are required to be turned in by the 10th of the month.
- 4) Unsatisfactory Progress OJT: OJT logs more than 30 days delinquent, without a company approved leave of absence. OJT logs will be turned in, on the 10th of the month.

For L&I Staff Use Only		
Received 09/05/2023 (A	Teri Gardner 9-5-23	
L&I Apprenticeship Consultant	L&I Admin	

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



# Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name		
IAM/Boeing Joint Apprenticeship Committee		
Occupation		
Flight Line Mechanic		
Term/OJT Hours	Total RSI Hours	
7360 hours 640 hours		
Training Provider		
South Seattle College		

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

Chair	Date 9-5-2023	Secretary	Date
Print Name: Raymond M	iller	Print Name:	
Signature: Represend milly		Signature:	

# Training Provider Signature

Approv	ed By (Print Name): Laura Kingston	Title:	Interim Executive Dean, Georgetown, South Seattle College
Signatu	ure of the Training Provider:		
Date:	09/05/2023		

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

#### SBCTC

Print Name:	Title:	
Signature of the Program Administrator:		
Date:		
□ SBCTC recommends approval □ SBC	TC recommends return to sponsor	

Program Name	Occupational Objective
IAM/Boeing Joint Apprenticeship Committee	Flight Line Mechanic

*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: Shop Algebra – year 1	Planned Hours: 50
Mode of Instruction (check all that apply)	
🖾 Classroom 🔲 Lab 🔲 Online 🔲 Self-Study	
Provided by: South Seattle College	
Description of element/course:	
Apprentices will develop a working knowledge and practical application of	
relate to manufacturing. This course covers the properties of real numbe	
solving equations and proportions. It also covers the manipulation of alge	
applications to shop problems such as the calculation of cutting speed, r	om, and cutting time.
Element/Course: Technical Drawings – year 1	Planned Hours: 50
Mode of Instruction (check all that apply)	
⊠ Classroom □ Lab □ Online □ Self-Study	
Provided by: South Seattle College	
Description of element/course:	ing zonog, the relationship of
Apprentices will learn how to interpret technical drawings, including draw	
detail, standard, section and auxiliary views and application. Apprentices	
tolerancing, lines, symbols and 3rd angle projection. They will delve into	
projection, and examine parts lists and how to navigate and utilize proce	
includes interpreting mechanical/manufacturing blueprints per American	
(ASME) Y14.5 Standards (2009). Emphasis on practical applications of t	
and interpreting engineering production drawings and updates, advanced	d design change notice (ADCN)
and drawing change notice (DCN).	
Element/Course: Aircraft General 1- year 1	Planned Hours: 50
Mode of Instruction (check all that apply)	
☐ Classroom 75% ☐ Lab 25% ☐ Online ☐ Self-Study	
Provided by: South Seattle	
Description of element/course:	
This course covers four main sections: Ground Operation & Servicing, Air	craft Drawings, Fluid Lines &
Fittings, and Material processes. The first part of the course, students are	
different fuels and the necessary precautions to observe when refueling a	
proper procedures for starting reciprocating and turbine engines and proce	
aircraft movement, and tie down. They will be able to start aircraft engines	
as well as how to move and secure aircraft. Awareness of ground operation	
The second part of the course will introduce the student to basic aircraft d	
diagrams. Topics will include drawing interpretation, symbols, plan views,	
diagrams, and basic drafting technique. Students will learn aircraft drawin	igs to the proficiency required to
perform normal aircraft inspection and typical repairs and alterations. Disc	
structural materials, basic heat treatment, and identifying appropriate non-	destructive testing methods. The
students will also be introduced to inspection measuring devices.	-

Element/Course: Hydraulic and Pneumatic Basics – year 2	Planned Hours: 40
Mode of Instruction (check all that apply)	
Classroom 🗆 Lab 🛛 Online 🗆 Self-Study	
Provided by: Boeing	
Description of element/course:	
These modules will introduce the apprentice to the physics of applied hydrauli	
apprentice will learn the components and application of a hydraulic system, ex	plain symbols, basic formulas
and the purpose of hydraulic actuators.	
Apprentices will learn basic components of a pneumatic system, the safety an	d maintenance of pneumatic
hand tools, learn calculation of force and torque, graphic symbols and schema	
testing and safety, troubleshooting. Apprentices will learn Boeing specific pne	
techniques for duct handling, installation of fittings on hydraulic and pneumatic	
Camera system to inspect hydraulic and pneumatic components.	stabee, atmeater of finitaled
Camera system to inspect hydraulic and pheumatic components.	

 Element/Course:
 Geometric Dimensioning & Tolerance (GD&T) – year 2
 Planned Hours:
 50

 Mode of Instruction (check all that apply)

 $\boxtimes$  Classroom 75%  $\boxtimes$  Lab 25%  $\square$  Online  $\square$  Self-Study

Provided by: South Seattle College

Description of element/course:

Apprentices will study the theory and application of the use of standard tolerances and GD&T concentrating on geometric dimensioning and its relation to engineering drawings. This course introduces apprentice machinists to principles of GD&T governed by the ASME Y14.5 Standards (2009). Apprentices will learn to identify and interpret each of the GD&T controls for form, profile, orientation, location, and runout. Apprentices will learn to interpret symbols, datums, basic dimensions, material condition modifiers, and other GD&T concepts that are essential for the machinist. Hands-on activities will emphasize interpreting GD&T found on engineering drawings, as well as the setup, measuring, and inspection of a part or features with geometric tolerancing.

 Element/Course:
 Airframe Structure 1 – year 2
 Planned Hours:
 50

 Mode of Instruction (check all that apply)
 50
 50

⊠ Classroom 75% ⊠ Lab 25% □ Online □ Self-Study

Provided by: South Seattle College

Description of element/course:

This course covers six main sections: Basic physics, maintenance publications, mechanic privileges and limitation, wood structures, aircraft covering, and aircraft finishes. Basic Physics gives instruction in mechanical advantage conversion between forms of energy, vibration, gas laws, heat, and pressure. The student will be able to demonstrate their knowledge of basic physics on subjects about sound, light, heat, temperature, gas laws, fluid mechanics, aircraft structures, and theory of flight. Learning about maintenance publications reinforces the importance of regulations governing aviation maintenance and the information furnished by the aircraft, engine, and component manufacturers. The mechanic privileges and limitations section explain what is expected of the AMT by the aircraft owner, and what is allowed by the FAA. Upon completion the student will be able to explain the legal limitations of each category of maintenance airmen; and the privileges granted to Aviation Maintenance Technicians, Authorized Inspectors, and Repairmen.

In the second part of the course, the students learn about aircraft airframe structures, including wood, fabric and sheet metal, airframe inspection, application of finishes and assembly of fixed wing and rotary wing components and structures, balancing and rigging of airframe structures and components. This course is FAA approved under 14 CFR Part 147.

Element/Course:	Airframe Systems & Components 1 – year 3	Planned Hours: 50
Mode of Instruction (check	all that apply)	
⊠ Classroom 75%	🖾 Lab 25% 🛛 Online 🛛 Self-Study	
Provided by: South	Seattle College	
Description of element/cou		
This course covers	three main components: Hydraulic and pneumatic syst	tems, aircraft landing gear
systems, and asser	mbly and rigging. Students will learn hydraulic and pne	umatic power system topics
include power syste	em components, safety practices, hydraulic fluid types	and characteristics, inspection,
servicing, and stand	dard maintenance practices. They will then move on to	aircraft landing gear systems
	k struts, steering systems, wheels and tires, brakes, wa	** *
a contractor constructed on	unterne water ation and monition indirection systems. The	su cuill a ais alcilla in also alcina.

controls, anti-skid systems, retraction and position indicating systems. They will gain skills in checking, overhaul, repairs, installation, removal, servicing, inspection, and troubleshooting of landing gear systems, hydraulic and pneumatic power systems.

In the second part of the course, students will learn assembly and rigging. This highlight the relationship between aircraft rigging and the aerodynamics of flight. Upon completion of this section, the student will be able to correctly assemble an aircraft, rig the primary and secondary control surfaces, verify the correct alignment of all of the components, demonstrate their knowledge of functions of the flight controls of fixed-wing and rotary-wing aircraft, and explain the effects of improperly rigged control surfaces.

Element/Course: Airframe Structure 2 – year 3	Planned Hours: 50
Mode of Instruction (check all that apply)	
🗆 Classroom 🛛 Lab 🖾 Online 🗔 Self-Study	
Provided by: South Seattle College	
Description of element/course:	

This course covers four main sections: Sheet metal aircraft construction basics, aircraft structural fasteners, repair and inspection of structures, and composites. Students will learn about sheet metal and nonmetallic structures and examine sheet-metal and nonmetallic composite structures including the stresses on aircraft structure, and the strength of various metal materials. Upon completion, the student will demonstrate their ability to inspect sheet-metal structures, access damage, design an airworthy repair, lay-out and form sheet-metal components and assemble them using the appropriate solid rivets or special fasteners.

In the second part of this course, the student will learn the theory of welding, silver soldering, soft soldering, brazing, and be able to give a detailed description of the types, tools, materials, and methods of soldering and brazing for aircraft construction and maintenance. Upon completion the student will be able to demonstrate their ability to solder and braze.

Element/Course: Aircraft General 2 – year 3 Mode of Instruction (check all that apply)	Planned Hours:	50
$\boxtimes$ Classroom 75% $\boxtimes$ Lab 25% $\square$ Online $\square$ Self-Study		
Provided by: South Seattle		
Description of element/course:		
This course covers four main sections: Cleaning & corrosion control, weight and	d balance, applied m	ath, and
maintenance forms and records. The first part of the course, students will expla	in correct usage of c	leaning
materials and be able to properly clean an aircraft safely using the correct mate		
the identification of various types of corrosion, evaluation of corrosion damage,		
corrosion deposits, evaluate the cleaned area after treatment, and protect it from		
student will learn how to measure the weight and balance of an aircraft. The stu		
materials including standard aircraft hardware, lines, fittings, fabrication, installa prevention and removal.	alion, and removal, c	orrosion
In the second part of the course, students will be introduced to applied math pri	ncinles as they relat	e to
aircraft maintenance. Maintenance Forms and Records emphasize the importa		
aviation maintenance. Students will be able to properly describe the work done		
proper maintenance record entries. At the end of this section students will be a		
maintenance record for a 100-hour inspection and compile a discrepancy list fo		
an inspection. The student will also be able to describe a repair of an aircraft st	ructure and properly	
complete an FAA Form 337.		
Element/Course: Electricity Systems and Theory – year 4	Planned Hours:	50
Mode of Instruction (check all that apply)		50
⊠ Classroom 75% ⊠ Lab 25% □ Online □ Self-Study		
Provided by: South Seattle College		
Description of element/course:	E E 11	
This course introduces the fundamentals of basic electricity and prepares the w		
electrical circuitry and how aircraft electrical systems function. Apprentices will between voltage, current, resistance, power, capacitance, and inductance in ar		
be able to read and interpret electrical circuit diagrams and demonstrate how to		
batteries. Basic electricity includes Ohms law, Kirchhoff's Current law, Watt's la		
Current (DC) and Alternating Current (AC). Apprentices will define magnetism		
generate power and power electric motors. They will explain the power distribu		
the wiring is protected from overloads. Teaching levels are high in this class to		
general principles, demonstrate sufficient skills to simulate return to service, an	d perform with a hig	h degree
of practical application.		
Element/Course: Powerplant Theory and Maintenance – year 4	Planned Hours:	50
Mode of Instruction (check all that apply)		
⊠ Classroom 75% ⊠ Lab 25% □ Online □ Self-Study		
Provided by: South Seattle College		
Description of element/course: This course covers five main components: Types of engines/motors, crankshat	fte propellere and in	enection
and operating principles. Apprentices will develop an understanding of the ope		
alternators, DC motors, and AC motors, and their repair and overhaul. They wi		
requirements of electrical theory and components operating in high temperatur		
wiring, controls, switches, and indicators and protect them from its effects. This		
under, 14 CFR Part 147		

Element/Course: Powerplant Systems and Components – year 4	Planned Hours: 50		
Mode of Instruction (check all that apply)			
🖾 Classroom 75% 🖾 Lab 25% 🗀 Online 🛛 Self-Study			
Provided by: South Seattle College			
Description of element/course:			
This course covers six main components: engine fuel and metering systems, ma	aintenance & lubrication		
systems, induction of exhaust, engine ignition and electrical systems, and engin	e starting systems. In the		
second half of the course, students will learn theory and maintenance, including	the inspection, repair,		
overhaul, service, troubleshooting, removal, and installation of aircraft reciproca	ting and turbine engines.		
Powerplant systems and components, including systems, repair, overhaul, service, troubleshooting,			
removal, and installation of aircraft reciprocating and turbine engine instrument, fire protection, electrical,			
lubrication, ignition. This course is FAA approved under, 14 CFR Part 147.			
Element/Course: Advanced Powerplant – year 4	Planned Hours: 50		
Mode of Instruction (check all that apply)			
🖾 Classroom 75% 🖾 Lab 25% 🗆 Online 🛛 Self-Study			

Provided by: South Seattle College

Description of element/course:

This course covers eight main components: Engine fire protection, induction and engine airflow systems, induction of exhaust and reverse systems, propellers, turbine auxiliary power units, testing and inspection techniques. Apprentices will continue to advance their knowledge of powerplant systems and learn and demonstrate proper test run methods of turbine and reciprocating engines. They will also learn and demonstrate proper inspection techniques and methods to use when they are troubleshooting engines.

# Additional Training Providers (if necessary)

Shelley Wilson Print Name Training Provider

Boeing Sr. Manager Title of Training Provider

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Signature of Training Provider

WFRC Organization of Training Provider

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F100-520-000 Apprenticeship Related/Supplement Instruction (RSI) Plan Review 01-2022

For L&I Staff Use Only		
Received 09/05/2023 (R	Teri Gardner 9-5-23	
L&I Apprenticeship Consultant	L&I Admin	

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



# Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Name			
IAM/Boeing Joint Apprenticeship Committee			
Occupation			
Industrial Maintenance Fluid Technician			
Term/OJT Hours	Total RSI Hours		
7360 hours	640 hours		
Training Provider			
South Seattle College			

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

Chair Authorized Signer	Date 9-5-2023		Date
Print Name: Raymond Mi	ller	Print Name:	
Signature:	;M	Signature:	

# Training Provider Signature

Approved By (Print Name): Laura Kingston		ngston	Title: Interim Executive Dean, Georgetown, South Seattle College
Signature of the	Training Provider:	Laura Kingston	
Date:	Sep 5, 2023		

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

#### SBCTC

Print Name:	Title:
Genevieve Howard	Policy Associate
Signature of the Program Administrator:	
Date: 10/06/2023	
SBCTC recommends approval	CTC recommends return to sponsor

Program Name	Occupational Objective
IAM/Boeing Joint Apprenticeship Committee	Industrial Maintenance Fluid Technician

*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.
- $\boxtimes$  Defined 12-month school year.

 $\Box$  2,000 hours of on-the-job training.

	Diama di Liama 50	
Element/Course: Foundations of Plumbing -year 1	Planned Hours: 50	
Mode of Instruction (check all that apply)		
Provided by: Boeing		
Description of element/course: In this course apprentices will learn the background and history of plumbing. Ap	proptions will gain familiar	-itu
with materials and tools used in the trade. Troubleshooting, reasoning, and prol		
be introduced to the apprentices. In this introductory course apprentices will gai		
plumbing skills including, but not limited to, heating and cooling, waste removal,		
They will also recognize various types of pipes, valves, plumbing fixtures, tanks,	and other apparatuses the	at
convey fluids.		
		5 G
Element/Course: Backflow Assembly Tester (Trainee Cert) – year 1	Planned Hours: 50	
Mode of Instruction (check all that apply) ⊠ Classroom 75% ⊠ Lab 25% □ Online □ Self-Study		
Provided by: Boeing Description of element/course:		
In this course apprentices learn to identify the different types of backflow preven	ters components and	
functions. Apprentices learn to inspect and test backflow prevention assembly in		,ill
also learn and demonstrate the proper methods to record and report assembly t		(111
		14 km
follows the regulations, policies, and procedures established by the Washington (DOH) in cooperation with the Waterworks Operator Certification Advisory Com		
LIDUED IN COODERATION WITH THE VVALETWORKS ODERATOR CENTICATION ADVISORY COM		
		6
Washington State Department of Ecology Criteria for Wastewater Treatment Pla	ant Operators and	5
	ant Operators and	5
Washington State Department of Ecology Criteria for Wastewater Treatment Pla Washington State DOH Relevancy Criteria for Waterworks Operator Profession	ant Operators and al Growth.	5
Washington State Department of Ecology Criteria for Wastewater Treatment Pla Washington State DOH Relevancy Criteria for Waterworks Operator Profession Element/Course: Power Plant Fundamentals – year 1	ant Operators and	
Washington State Department of Ecology Criteria for Wastewater Treatment Pla Washington State DOH Relevancy Criteria for Waterworks Operator Profession Element/Course: Power Plant Fundamentals – year 1 Mode of Instruction (check all that apply)	ant Operators and al Growth.	
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Xonline       Self-Study	ant Operators and al Growth.	<u> </u>
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Mole of by: Boeing	ant Operators and al Growth.	<b>.</b>
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Mole of by: Boeing         Description of element/course:	ant Operators and al Growth. Planned Hours: 5	
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         □ Classroom       □ Lab         ☑ Online       □ Self-Study         Provided by: Boeing         □ Description of element/course:         In this introductory course apprentices will learn the basic steam generation system	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy i	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Online       Self-Study         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy i s for gaining thermal	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         □       Classroom         □       Lab         ○       Provided by: Boeing         □       Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy i s for gaining thermal	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Online       Self-Study         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy i s for gaining thermal	
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         □ Classroom       □ Lab         ⊠ Online       □ Self-Study         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features         efficiency. Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is s for gaining thermal operating features and	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         □ Classroom       Lab         ⊠ Online       Self-Study         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy i s for gaining thermal	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       Mode of a power plant.	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is s for gaining thermal operating features and	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)       □         □       Classroom       □         Lab       ⊠       Online       □         Description of element/course:       In this introductory course apprentices will learn the basic steam generation sys         converted into electrical energy, components of the system, and design features         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       □         Classroom       □         Lab       ⊠         Online       □         Self-Study	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is s for gaining thermal operating features and	
Washington State Department of Ecology Criteria for Wastewater Treatment Plat         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)         Classroom       Lab         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation system, and design features         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       Mode of a power plant.	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is s for gaining thermal operating features and	
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)       Classroom         Classroom       Lab       Online         Description of element/course:       In this introductory course apprentices will learn the basic steam generation system, and design features:         In this introductory course apprentices will learn the basic steam generation system, and design features:         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       Classroom         Classroom       Lab       Online         Self-Study       Provided by: Boeing         Description of element/course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       Classroom         Classroom       Lab       Online         Self-Study       Provided by: Boeing         Description of element/course:       Self-Study	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is for gaining thermal operating features and Planned Hours: 10	is
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)       □         Classroom       □         Lab       ⊠         Online       □         Self-Study         Provided by: Boeing         Description of element/course:         In this introductory course apprentices will learn the basic steam generation sys         converted into electrical energy, components of the system, and design features         efficiency. Topics covered include: handling of water, fuel, and wastes, and the         maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)         □ Classroom       Lab         Mode of Instruction (check all that apply)         □ Classroom       Lab         ⊠ Online       Self-Study         Provided by: Boeing       Description of element/course:         Apprentices will learn energy principles and boiler maintenance. They will gain and the self-Study	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is s for gaining thermal operating features and Planned Hours: 10 an understanding of coal, o	is oil,
Washington State Department of Ecology Criteria for Wastewater Treatment Pla         Washington State DOH Relevancy Criteria for Waterworks Operator Profession         Element/Course:       Power Plant Fundamentals – year 1         Mode of Instruction (check all that apply)       Classroom         Classroom       Lab       Online         Description of element/course:       In this introductory course apprentices will learn the basic steam generation system, and design features:         In this introductory course apprentices will learn the basic steam generation system, and design features:         efficiency.       Topics covered include: handling of water, fuel, and wastes, and the maintenance of a power plant.         Element/Course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       Classroom         Classroom       Lab       Online         Self-Study       Provided by: Boeing         Description of element/course:       Generating & Using Steam in a Power Plant – year 1         Mode of Instruction (check all that apply)       Classroom         Classroom       Lab       Online         Self-Study       Provided by: Boeing         Description of element/course:       Self-Study	ant Operators and al Growth. Planned Hours: 5 tem, how thermal energy is s for gaining thermal operating features and Planned Hours: 10 an understanding of coal, o istion control. Apprentices	is oil,

 Element/Course:
 Industrial Rigging Principles and Practices – year 1
 Planned Hours:

F100-520-000 Apprenticeship Related/Supplement Instruction (RSI) Plan Review 01-2022

7

Mode of Instruction (check all that apply)
□ Classroom □ Lab ⊠ Online □ Self-Study Provided by: Boeing
Description of element/course:
Apprentices will learn multiple techniques and safeguards in the use of rope, chain, hoists, and scaffolding
when moving heavy plant equipment and maintaining plant utilities.
Element/Course: Equipment Installation – year 1 Planned Hours: 5
Mode of Instruction (check all that apply)
Provided by: Boeing
Description of element/course:
In this course apprentices will learn installation and maintenance procedures for large plant equipment. This
course considers factors affecting proper installation in detail, from preparatory relocation of underground
piping and wiring, through equipment anchoring, aligning, and test runs.
Element/Course: Basic Crane Operations – year 1 Planned Hours: 2
Element/Course:         Basic Crane Operations – year 1         Planned Hours:         2           Mode of Instruction (check all that apply)         2
□ Classroom □ Lab ⊠ Online □ Self-Study
Provided by: Boeing
Description of element/course:
This course provides apprentices the basic information for how to rig, load, and safely operate cranes.
Element/Course: Reading Blueprints – year 1 Planned Hours: 15
Mode of Instruction (check all that apply)
□ Classroom □ Lab ⊠ Online □ Self-Study
Provided by: Boeing
Description of element/course:
Apprentices will learn to read and interpret several varieties of blueprints used in industrial plant. They will have the opportunity to examine hydraulic, pneumatic, piping, plumbing, electrical, air-conditioning, and
refrigeration drawings. Apprentices will identify details, and markings from an assembly drawing.
Apprentices will learn to name and identify from an exhibit several types of threaded fasteners and they will
recognize and name building materials given their standard symbols.
Element/Course:         Facilities Blueprints Interpretation – year 1         Planned Hours:         10
Mode of Instruction (check all that apply)
Provided by: Boeing
Description of element/course:
In this course apprentices will gain an understanding of Boeing's Drawing System and explain the drawing
system storage and retrieval processes. Apprentices will explain the uses of drawings. Apprentices will learn
to interpret the drawings and recognize various blueprint trade symbols for electrical, hydraulics,
pneumatics, and plumbing.
Element/Course: Using NFPA – year 1 Planned Hours: 10
Mode of Instruction (check all that apply)
🗆 Classroom 🗆 Lab 🖾 Online 🗆 Self-Study
Provided by: Boeing Description of element/course:
Apprentices will learn to locate and apply requirements for sprinkler system valves including water control
valves, hose valves, and backflow prevention devices. After gaining an understanding of the purpose of
NFPA 13, apprentices will learn how to achieve life safety, property protection, and environmental safety
objectives. Apprentices will also learn the purpose and scope of NFPA 25. They will define and identify
impairments and both critical and non-critical deficiencies. Apprentices will identify inspection, testing, and
maintenance activities to be conducted on a scheduled basis and for unscheduled events.

Element/Osumer Diverting and Oss Osdan waar 0	Diamod House 50
Element/Course: Plumbing and Gas Codes – year 2	Planned Hours: 50
Mode of Instruction (check all that apply)	
🗆 Classroom 🛛 Lab 🖾 Online 🗔 Self-Study	
Provided by: Boeing	
Description of element/course:	
In this course apprentices will gain understanding of the general regulation	
sewers, location of sewers, and prohibited fittings and practices. They wi	I also learn code standards for the
installation, operation, and maintenance of gas piping and equipment. Ap	
National Standard Plumbing Code (NSPC) is administered and they will	
principles on which plumbing codes are based. Apprentices will determin	
fittings, joints and fixtures. Additionally, apprentices will learn to determin	
systems and their vents conform to code and they will use various table	
parts of plumbing systems. Testing is addressed regarding air, water, ar	
topics covered include private sewer disposal systems, septic tanks, lead	ch neids, and storm drainage.
Element/Course: Shop Algebra – year 2	Planned Hours: 50
Mode of Instruction (check all that apply)	
🛛 Classroom 🛛 Lab 🖾 Online 🖾 Self-Study	
Provided by: South Seattle	
Description of element/course:	
Apprentices will learn to recognize and interpret algebraic terminology an	nd symbolism. They will understand
and apply the order of operations and be able to solve equations for unk	
demonstrate the ability to create algebraic equations from word statement	
demonstrate the ability to create algebraic equations from word statement	
Element/Courses Algobre Basiss: As Applied to Mater and Masteriate	Planned Hours: 14
Element/Course: Algebra Basics: As Applied to Water and Wastewater	
Formulas – year 2	
Mode of Instruction (check all that apply)	
⊠ Classroom  □ Lab  □ Online  □ Self-Study	
Provided by: Boeing	
Description of element/course:	
In this course apprentices will develop skills with applying Algebraic con-	cepts to everyday formulas
associated with water and wastewater system operations.	
Element/Course: Water Hydraulics – year 2	Planned Hours: 36
Mode of Instruction (check all that apply)	
🛛 Classroom 🛛 Lab 🗋 Online 🗔 Self-Study	
Provided by: Boeing	
Description of element/course:	
In this course apprentices will examine the general principles of water hy	draulics and how they relate to the
operation of water distribution systems, wastewater collection systems,	
facilities. Topics covered include mass, density, displacement, flow, velo	
friction loss, minor head loss, and flow measurement. This course will en	
water hydraulic concepts to practical situations and to perform calculation	
applications. Apprentices will learn to monitor water distribution system	
meters. Apprentices will also learn to determine water volume and wate	flow rate, as well as identify flow
characteristics like pipe size, C-factor, and head loss.	
Element/Course: Water and Wastewater Utility Confined Space Entry	- year 2 Planned Hours: 8
Mode of Instruction (check all that apply)	
⊠ Classroom □ Lab □ Online □ Self-Study	
Provided by: Boeing	
Description of element/course:	
Apprentices will learn the essentials of federal and state confined space	entry standards. Apprentices will
learn to comply with regulations, reduce liabilities, and avoid costly pena	alties
Lieun to comply with regulations, readoc habilities, and avoid costly perk	
Element/Course: Wastewater Treatment Processes – year 3	Planned Hours: 5
Mode of Instruction (check all that apply)	

F100-520-000 Apprentic	ceship Related/Sup	plement Instruction	(RSI) Plan Review	01-2022

□ Classroom □ Lab ⊠ Online □ Self-Study	
Provided by: Boeing	
Description of element/course:	
In this course apprentices will gain an understanding of the various stages of wast	
will be placed on the removal of solids, and the use of chemical and biological pro	
purification. Apprentices will also learn about the treatment and disposal of extract	ted solids.
Element/Course: Industrial Plumbing and Pipefitting – year 3	Planned Hours: 40
Mode of Instruction (check all that apply)	
□ Classroom □ Lab ⊠ Online □ Self-Study	
Provided by: Boeing	
Description of element/course:	
Apprentices will gain the skills and knowledge needed to perform tasks associated	d with the trades of
plumber and pipefitter. They will learn how to use the tools of the trade with an em	
methods used to join pipe and the procedures for supporting, installing, and testin	
covered in this course. Apprentices will learn common plumbing fixture installation	and maintenance, along
with a review of tanks, pumps, and boilers.	
Element/Course: High Pressure Pipefitting and Sanitary Plumbing Fixtures – yea	
	Hours:
Mode of Instruction (check all that apply)	
🗀 Classroom 🛛 Lab 🖾 Online 🗔 Self-Study	
Provided by: Boeing	
Description of element/course:	
In this course apprentices learn the design and arrangement of pipes. They will su	
calculations related to pipes and pipefitting, and they will explain the differences b	etween various valves and
cocks and the uses for each. Apprentices will learn the purpose for and uses of se	eparators and steam traps.
They will gain a working knowledge of institutional fixtures and some of the comm	on problems associated
with each and various troubleshooting techniques to repair and maintain them. Fir	nally, apprentices will
demonstrate an understanding of sanitary plumbing fixtures and their manufacture	
<u> </u>	
Element/Course: Domestic, Institutional, and Cold-Water Supply – year 3	Planned Hours: 20
Mode of Instruction (check all that apply)	
□ Classroom □ Lab ⊠ Online □ Self-Study	
Provided by: Boeing	
Description of element/course:	
Apprentices will explain ground water supply, pneumatic water supply, and demo	nstrate how to measure
water. In this course apprentices will learn the differences between and explain th	
water supply and reservoirs and various treatments of water. Finally, apprentices	• •
connections and be able to explain pressure and suction tank connections, specifi	
connections and be able to explain pressure and suction tank connections, specifi	
Element/Courses Molding Chan Cofety wars 2	Diamad Lioung: 4
	Planned Hours: 1
Mode of Instruction (check all that apply)	
Provided by: Boeing	
Description of element/course:	o will alort appropriate to
While stressing the importance of safety to self and others in the shop, this course	
as well as teach them how to avoid, the many hazards associated with welding. T	opics covered include

operator and fire safety, personal safety and proper attitude, safe use of equipment, and cylinder safety.

F100-520-000 Apprenticeship Related/Supplement Instruction (RSI) Plan Review 01-2022

Element/Course: Applied Composition – year 3	Planned Hours:	50
Mode of Instruction (check all that apply)		
⊠ Classroom □ Lab □ Online □ Self-Study		
Provided by: South Seattle College		
Description of element/course:	Linductor, Theory will be	
In this course apprentices will master composition skills needed in business and		
use principles and conventions of technical writing. Apprentices will also learn a		C
communications etiquette, all while developing teamwork and industry communi	cation skills.	
Element/Course: Electrical Fundamentals for Maintenance – year 3	Planned Hours:	3
Mode of Instruction (check all that apply)	r lamou riouro.	<b>–</b> –
□ Classroom □ Lab ⊠ Online □ Self-Study		
Provided by: Boeing		
Description of element/course:		
This course will familiarize non-electrical workers with the basics of electricity ar	nd electronics to impr	ove
their ability to troubleshoot systems and to team with electrical workers. Appren	tices will be familiar v	vith
electrical and electronic terminology. They will also understand electrical compo		
systems and have an awareness of electrical hazards and how to control them.		
Element/Course: Electrical Fundamentals for Non-Electrical Workers – year 3	Planned Hours:	24
Mode of Instruction (check all that apply)		
⊠ Classroom □ Lab □ Online □ Self-Study		
Provided by: Boeing		
Description of element/course: This introductory course familiarizes non-electrical workerssuch as maching	no tool machanica	
millwrights, and plumbers—with the basics of electricity and electronics to in	iprove their ability to	·
troubleshoot systems and to team with electrical workers.		
Element/Course: Introduction to Computers – year 4	Planned Hours:	50
Mode of Instruction (check all that apply)		- 50
⊠ Classroom □ Lab □ Online □ Self-Study		
Provided by: South Seattle College		
Description of element/course:		
Apprentices will gain an introductory understanding of Microsoft Word and Micro	osoft Excel. They will	learn
how to take screen captures and create PDFs. Apprentices will demonstrate go		
	od 'Netiquette and	
understand why it is important. Apprentices will learn to attach documents to en	od 'Netiquette and	
understand why it is important. Apprentices will learn to attach documents to en	od 'Netiquette and	8
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understand why it is important. Apprentices will learn to attach documents to en Element/Course: Chemical Hazards and Preventive Maintenance – year 4	od 'Netiquette and nail.	
understand why it is important. Apprentices will learn to attach documents to en         Element/Course:       Chemical Hazards and Preventive Maintenance – year 4         Mode of Instruction (check all that apply)         □ Classroom       □ Lab       ☑ Online       □ Self-Study         Provided by:       Boeing	od 'Netiquette and nail.	
understand why it is important. Apprentices will learn to attach documents to en         Element/Course:       Chemical Hazards and Preventive Maintenance – year 4         Mode of Instruction (check all that apply)         □ Classroom       □ Lab       ☑ Online         □ Self-Study         Provided by: Boeing         □ Description of element/course:	od 'Netiquette and nail. Planned Hours:	8
understand why it is important. Apprentices will learn to attach documents to en         Element/Course:       Chemical Hazards and Preventive Maintenance – year 4         Mode of Instruction (check all that apply)         □ Classroom       □ Lab         ☑ Online       □ Self-Study         Provided by: Boeing         □ Description of element/course:         In this course apprentices become familiar with OSHA's Hazard Communication	od 'Netiquette and nail. Planned Hours: n Standard. They will	8
understand why it is important. Apprentices will learn to attach documents to en         Element/Course:       Chemical Hazards and Preventive Maintenance – year 4         Mode of Instruction (check all that apply)         □ Classroom       □ Lab       ⊠ Online         □ Self-Study         Provided by: Boeing         □ Description of element/course:         In this course apprentices become familiar with OSHA's Hazard Communication understand the physical and health hazards presented by dangerous chemicals	od 'Netiquette and nail. Planned Hours: n Standard. They will and they will be able	8 e to
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understand why it is important. Apprentices will learn to attach documents to en         Element/Course:       Chemical Hazards and Preventive Maintenance – year 4         Mode of Instruction (check all that apply)       □         □       Classroom       □         Lab       ⊠       Online       □         Description of element/course:       In this course apprentices become familiar with OSHA's Hazard Communication understand the physical and health hazards presented by dangerous chemicals explain the information contained in a Material Safety Data Sheet (MSDS). App need for Preventive Maintenance (PM) and they will be able to describe elemer program. Apprentices will learn to list the data that can be obtained from review they will be able to describe techniques for controlling emergency, scheduled, to the state of the state	od 'Netiquette and nail. Planned Hours: Note: Standard. They will and they will be able rentices will also exp nts needed to establist ring inspection report unscheduled, and PM ntrol and they will be	8 e to lain the sh a PM s and I work. able to

Element/Course: Asbestos Cement Pipe Work Practice Procedures – year 4 Planned Hours: 8
Mode of Instruction (check all that apply)
⊠ Classroom □ Lab □ Online □ Self-Study
Provided by: Boeing
Description of element/course:
This course presents approved training for Asbestos Cement Pipe Work Practice Procedures in compliance
with the most recent Department of Labor and Industries regulations. Apprentices will learn safe, field-
proven procedures to protect them from cancer-causing asbestos fibers and how to avoid costly penalties.
Students will discover how to recognize asbestos health hazards, prevent exposure to deadly asbestos
fibers, and how to choose and use protective equipment. Apprentices will also perform approved AC pipe
work practices.
Element/Course: Industrial Pneumatics – year 4 Planned Hours: 9
Mode of Instruction (check all that apply)
□ Classroom □ Lab ⊠ Online □ Self-Study
Provided by: Boeing Description of element/course:
This course introduces Apprentices to the basic physics of energy, work, and power as related to
pneumatics. Apprentices will explain gas laws, flow, pressure, and the basic components of a pneumatic
system as they apply to fluid power. They will explain how the various components found in pneumatic
system as they apply to hold power. They will explain how the validus components round in predmatic systems function and interact with each other. Apprentices will learn about air preparation and conditioning,
calculation of force and torque, and various graphic symbols. This course also emphasizes the importance
of schematics in technical communication related to pneumatic circuits.
or schematics in technical communication related to pheumatic circuits.
Element/Course: Intermediate Pneumatics – year 4 Planned Hours: 40
Mode of Instruction (check all that apply)
⊠ Classroom 70% ⊠ Lab 30% □ Online □ Self-Study
Provided by: Boeing
Description of element/course:
Apprentices will gain an in-depth knowledge of pneumatic principles including, but not limited to load forces,
flows, basic pneumatic theory, relay and air logic, and pressure and area relationships. Apprentices will also
develop a working knowledge of linear and rotary actuators, as well as pressure and directional controls.
Element/Course: Advanced Pneumatics – year 4 Planned Hours: 40
Mode of Instruction (check all that apply)
⊠ Classroom 70% ⊠ Lab 30% Online □ Self-Study
Provided by: Boeing
Description of element/course: This course will provide apprentices with a brief review of pneumatic principles that will support discussions
on component and system operation and maintenance. Apprentices will become familiar with and
troubleshoot various electro-pneumatic devices, such as servo and proportional components. Apprentices will learn to read and interpret pneumatic prints and they will understand the relationship between pressure
and flow. Hands-on lab exercises will be used to demonstrate electronic pressure and directional controls

# **Additional Training Providers (if necessary)**

Shelley Wilson Print Name Training Provider

Boeing Sr. Manager Title of Training Provider

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Signature of Training Provider

WFRC Organization of Training Provider

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F100-520-000 Apprenticeship Related/Supplement Instruction (RSI) Plan Review 01-2022

For L&I Sta	ff Use Only
Received 09/05/2023 R	<u>Teri Gardner 9-5-23</u>
&I Apprenticeship Consultant	L&I Admin

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



# **Journey Level Wage Rate**

From which apprentices' wage rates are computed

TO: Washington State Apprenticeship & Training Council

FROM: IAM/Boeing Joint Apprenticeship Committee #154

Occupation:	County(ies):	Journey Level Wage Rate:	Effective Date:
Industrial Maintenance Fluid Technician	Snohomish, King, and Pierce	\$46.04	9/1/2023
		\$	
		\$	
		\$	

Sponsors must submit the journey-level wage at least annually or whenever changed to the Department.

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

Chair Chair Authorized Signer	Date 9-5-2023	Secretary	Date
Print Name: Raymond Miller		Print Name:	
Signature: Raymond Miller		Signature:	

For L&I Sta	ff Use Only
Received 09/05/2023 R	<u>Teri Gardner 9-5-23</u>
&I Apprenticeship Consultant	L&I Admin

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



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TO: Washington State Apprenticeship & Training Council

FROM: IAM/Boeing Joint Apprenticeship Committee #154

Occupation:	County(ies):	Journey Level Wage Rate:	Effective Date:
Industrial Maintenance Fluid Technician	Snohomish, King, and Pierce	\$46.04	9/1/2023
		\$	
		\$	
		\$	

Sponsors must submit the journey-level wage at least annually or whenever changed to the Department.

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

Chair Authorized Signer	Date 9-5-2023	Secretary	Date
Print Name: Raymond Miller		Print Name:	
Signature: Raymond Miller		Signature:	

To: Washington State Apprenticeship and Training Council

From: Seattle – Puget Sound Meatcutters Apprenticeship Committee

Subject: Requesting Sections to be removed from the Revision Request

The committee has decided to postpone the addition of the occupation of Fishmonger, Retail, and respectfully requests the Sections pertaining to the addition of the occupation be withdrawn from consideration.

We respectfully ask the Council to approve the remaining Sections which are needed to conduct business.

Please withdraw the following changes requested noted below:

- Cover Page
  - Change of Sponsor Name
  - Addition of Fishmonger, Retail occupation
- Sponsor Introductory Statement
- Section I Geographic Area
- Section III. A
  - Subsection 1.
  - Subsection 2.
  - Subsection 3, Retain changes requested except please delete "Fishmongers" from the name of the program.
  - Subsection (new) 5, Retain changes requested except please delete "or Fishmonger" from the statement.
- Section IV Term of Apprenticeship Please retain 'new' A. and all changes to the statement and exclude 'new' B in its entirety.
- Section VI Ratio of Apprentices to Journey Level Workers as follows:
  - o Please delete and replace statements in their entirety as they pertain to #1 Meatcutter
  - Please delete #2 in its entirety
- Section VII Apprentice Wages and Wage Progression as follows:
  - Please restore boilerplate formatting as requested
  - Please retain changes for #1 Meatcutter
  - Please delete #2 in its entirety
- Section VIII Work Processes
- Section IX Related/Supplemental Instruction
- Section X. A. 3 Please retain changes requested except as follows
  - (new) c Retain changes requested, but please change request to read: Each apprentice must report OJT hours. OJT hours are reported using an approved app-based timecard system. This system requires the apprentice to submit timecards weekly showing the number of hours worked in each of the Work Processes outlined in Section VIII for Meatcutter or Fishmonger. If an apprentice does not keep up-to-date in the submission of weekly OJT timecards, they may be subject to disciplinary action by the sponsor.
  - o d. 2. Retain changes requested but please delete "and Fishmongers"

- d (3) Retain changes requested but please delete ",Seafood Market Manager,"
- Section IX Sponsor Responsibilities and Governing Structure

## III. Conduct of Program Under Washington Equal Employment Opportunity Plan:

- A. Selection Procedures:
  - 1.
  - 2.
  - 3. Once the Secretary has been informed, the applicant will be instructed to attend the next scheduled meeting of the Seattle Puget Sound Meatcutters Apprenticeship Committee. <u>Alternately, the applicant will be given the option to meet with an approved representative of the Apprenticeship Committee and will be provided instructions on how to coordinate a video conference with the approved representative. Whether in person or via video conference the The applicant will meet with an approved representative of the Apprenticeship Committee and will be conference the The applicant will meet with an approved representative of the Apprenticeship Committee and will:</u>

a.

- b. Complete and sign an application form.
- c. Read <u>Review</u> the standards of apprenticeship, and
- d. Complete <u>and sign</u> the apprenticeship agreement.
- e. All documentation required for admission into the apprenticeship program will be processed via digital email signature requests to expedite signature collection and registration.
- 4. Applicants appearing before the Apprenticeship Committee will be interviewed. This is an informational interview. Applicants who choose a virtual video conference with be given the same information. Following the applicant will be interviewed by the Apprenticeship Committee, Applicants will be provided instructions concerning attendance at related classroom training, obtaining the appropriate license, if needed, related classroom training attendance, OJT hour reports, and other information deemed necessary by the Committee. The <u>Apprenticeship</u> Committee will vote upon acceptance into the apprenticeship program for each applicant.

[Element #4 has been struck through as it will become #5]

4<u>5.</u> The employer is obligated to see that the selected applicant does not perform work in the trade of <del>meateutter</del> <u>Meatcutter</u> until fully compliant with all the forgoing procedures.

# IV. <u>Term of Apprenticeship:</u>

**A.** The term of apprenticeship <u>for Meatcutter apprentices</u> shall be two (2) years (4000 hours) of reasonably continuous employment divided into four (4) equal pay periods of six (6) months duration, including the initial probationary period.

# VI. <u>Ratio of Apprentices to Journey Level Workers:</u>

# E.

[Please delete and replace the statements in this section in their entirety.]

- <u>1. Meatcutter:</u>
  - a. The ratio of apprentices to journey level workers shall be one (1) apprentice in each shop (meat market) where two (2) journey level workers are employed; two (2) apprentices where five (5) journey level workers are employed; and three (3) apprentices where ten (10) journey level workers are employed. The number of apprentices in any shop shall not exceed three (3).
  - **b.** Shops whose owners work with the tools of the trade and work the major part of the day, and are employing one (1) journey-level worker shall be entitled to one (1) apprentice.

## VII. <u>Apprentice Wages and Wage Progression:</u>

## [Please change "C" to regular boilerplate formatting as follows]

- C. Wage Progression Schedules
- <u>1. Meatcutter, Retail</u>
  - <u>a.</u> Pertains to those whose hire date precedes December 3, 2010 (employer must be a Committee Approved Training Agent):
  - **b.** Pertains to those whose hire date is December 3, 2010 or later (employer must be a Committee Approved Training Agent):

## X. Administrative/Disciplinary Procedures:

- A. Administrative Procedures:
  - 3. Sponsor Procedures:
    - a. Related training class attendance is mandatory; apprentices must be on time for class and remain for the duration of the class.

- **<u>1.</u>** The Apprenticeship Committee recognizes that 100% attendance can be difficult and allows for the following number of Excused absences per quarter:
  - Fall Quarter 3 Excused Absences
  - Winter Quarter 2 Excused Absences
  - Spring Quarter 1 Excused Absence

<u>The difference in the number of Excused Absences is directly</u> <u>attributable to length of each Quarter.</u>

- **1.** <u>2.</u> Unexcused absences are not acceptable. When the apprentice is sick or knows they will miss class, they must call the Instructor before class begins for consideration of an excused absence.
  - NO SHOW & NO CALL = Unexcused Absence.
  - <u>Three late arrivals = Unexcused Absence.</u>
- 2. Three late arrivals equal an unexcused absence.
- 3. Missed classes and late arrivals must be made up, <u>The apprentice</u> is responsible for assignments and materials covered in classes they were absent for, regardless if the absence was excused or <u>unexcused. The</u> the-Instructor will provide the Apprentice with <u>make-up</u> assignments to make up for absences and late arrivals for every absence, and an additional make-up assignment for each excused absence that exceeds the allowable number of excused absences per quarter.
- 4. The Apprenticeship Committee will make a final determination on whether an absence or late arrival is considered excused or not.
- e <u>5.</u> The Apprenticeship Committee recognizes the need to take a vacation. <u>Therefore, with prior approval from the Instructor, a vacation will be considered an excused absence.</u> However, the apprentice must agree with the Instructor that all assignments will be completed within two weeks of the return to class from vacation. Failure to do so, may lead to an incomplete grade in the class. This will result in the apprentice being required to appear before the Apprenticeship Committee to give an Oral Report covering the missed lessons. Failure to appear, or to be prepared to present an Oral Report, may result in disciplinary action, or suspension or cancellation of the apprenticeship agreement.

- c. Each apprentice must report OJT hours. OJT hours are reported using an approved app-based timecard system. This system requires the apprentice to submit timecards weekly showing the number of hours worked in each of the Work Processes outlined in Section VIII for Meatcutter. If an apprentice does not keep up-todate in the submission of weekly OJT timecards, they may be subject to disciplinary action by the sponsor.
- d. Employer (Training Agent) management:
  - 1) <u>1.</u> The Employer is obligated to see that the apprentice attends related training classes regularly. The apprentice must be released from work obligations corresponding to scheduled <del>realated</del> <u>related</u> training classes.
  - <u>2.</u> The Employer must rotate apprentices in the various work processes to assure <del>a</del> well-rounded, competent journey level <u>mMeatcutter</u>.
  - 3) <u>3.</u> In the event an apprentice is having problems or issues related to RSI classes or OJT training, the Committee will contact the Employer to discuss the issue with the Meat Market <u>Manager</u> or Store Manager. If the problems or issues continue, the Employer will be contacted <u>again</u> and an Employer representative will be invited to attend the next scheduled Apprenticeship Committee meeting.
- B. **Disciplinary Procedures:** 
  - 3. Sponsor Disciplinary Procedures:
    - a.
    - b. An apprentice who does not correct related training attendance issues <u>or report OJT weekly according to the Work Processes</u> <u>outlined in Section VIII</u> will cause the Apprenticeship Committee to:
      - <u>1.</u> Contact the apprentice by phone call to their residence and/or work location to discuss the issue of related training absences. The goal is to resolve the issue and for the apprentice to agree to resume attending related training classes <u>and/or</u> <u>submitting OJT hours weekly</u>.
      - 2) <u>2.</u> If the attendance issue does not improve <u>and/or the</u> <u>submission of weekly OJT reports is not improved</u>, a twenty-

day advance notice to appear before the <u>Apprenticeship</u> Committee for possible disciplinary action will be sent to the apprentice. A copy of this notice will be sent to the Employer. The <u>Apprenticeship</u> Committee may require the apprentice to attend additional related training classes <u>and commit to</u> <u>attending all future RSI classes, be given a deadline to catch up</u> with OJT hour reports and commit to timely reporting of OJT hours going forward, or suspend or cancel the apprenticeship agreement, or take any other action the Committee deems appropriate.

For	L&I	Staff	Use	Only
				-

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: Seattle - Puget Sound Meatcutters Apprenticeship Committee, #89

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

- Additions shall be underlined (<u>underlined</u>).
- Deletions shall be struck through (struck through).
- See attached.

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

Chair Chair	Date	Secretary	Date
Authorized Signer			
Print Name:		Print Name:	
Signature:		Signature:	

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

Attach additional sheets if necessary

FROM:	Seattle - Puget Sound Meatcutters	Apprenticeshi	p Committee, #89

#### **Cover Page**

# SEATTLE – PUGET SOUND MEATCUTTERS <u>AND FISHMONGERS</u> APPRENTICESHIP COMMITTEE

(s	ponsor name)	
Occupational Objective(s):	SOC#	Term [WAC 296-05-015]
FISHMONGER, RETAIL	53021.00	2000 HOURS

Sponsor Introductory Statement (Required):

The following Standards for the development of meatcutter <u>Meatcutter and Fishmonger</u> apprentices have been prepared by Local 3000 United Food & Commercial Workers and Allied Employers Inc. <u>and</u> Independent Operators, assisted by the Apprenticeship Section of the Department of Labor and Industries. When approved by and registered with the Washington State Apprenticeship and Training Council, these Standards will govern the training of apprentices in this industry.

I. Geographic Area Covered:

The area covered by these Standards <u>for the occupation of Meatcutter, Retail</u> shall be all of King, Kitsap and Snohomish Counties, the Olympia area of Thurston County, and the Shelton area of Mason County.

<u>The area covered by these Standards for the occupation of Fishmonger, Retail shall be King,</u> <u>Kitsap and Snohomish Counties.</u>

## III. <u>Conduct of Program Under Washington Equal Employment Opportunity Plan:</u>

- A. Selection Procedures:
  - 1. Individuals who are interested in becoming a Meatcutter <u>or Fishmonger</u> apprentice can call or visit the business office; the address and phone number are listed below. Individuals will be informed they must apply directly to a participating shop or store with a meat market <u>or seafood department</u> and will be supplied with the names of shops and stores participating in the apprenticeship program.
  - 2. The employment practices to be followed for this program shall be established between the Apprenticeship Committee and individual Employers who must be Approved Training Agents of the Committee. After an employer has selected an applicant, the Employer shall immediately notify the United Food and Commercial Workers Union, Local 3000 business office, who shall report this information to the Secretary of the Seattle – Puget Sound Meatcutters <u>and Fishmongers</u> Apprenticeship Committee. The applicant shall not begin work in this trade until the next step, #3 below, is completed.
  - 3. Once the Secretary has been informed, the applicant will be instructed to attend the next scheduled meeting of the Seattle Puget Sound Meatcutters and Fishmongers Apprenticeship Committee. <u>Alternately, the applicant will be given the option to</u>

#### FROM: Seattle - Puget Sound Meatcutters Apprenticeship Committee, #89

<u>meet with an approved representative of the Apprenticeship Committee and will be</u> <u>provided instructions on how to coordinate a video conference with the approved</u> <u>representative. Whether in person or via video conference the The</u> applicant will meet with an approved representative of the Apprenticeship Committee and will:

a.

- b. Complete <u>and sign</u> an application form.
- c. Read <u>Review</u> the standards of apprenticeship, and
- d. Complete and sign the apprenticeship agreement.
- e. All documentation required for admission into the apprenticeship program will be processed via digital email signature requests to expedite signature collection and registration.
- 4. Applicants appearing before the Apprenticeship Committee will be interviewed. This is an informational interview. Applicants who choose a virtual video conference with be given the same information. Following the applicant will be interviewed by the Apprenticeship Committee, Applicants will be provided instructions concerning attendance at related classroom training, obtaining the appropriate license, if needed, related classroom training attendance, OJT hour reports, and other information deemed necessary by the Committee. The Apprenticeship Committee will vote upon acceptance into the apprenticeship program for each applicant.

[Element #4 has been struck through as it will become #5]

4<u>5.</u> The employer is obligated to see that the selected applicant does not perform work in the trade of <u>meateutter</u> <u>Meatcutter or Fishmonger</u> until fully compliant with all the forgoing procedures.

IV. <u>Term of Apprenticeship:</u>

- <u>A.</u> The term of apprenticeship <u>for Meatcutter apprentices</u> shall be two (2) years (4000 hours) of reasonably continuous employment divided into four (4) equal pay periods of six (6) months duration, including the initial probationary period.
- **B.** The term of apprenticeship for Fishmonger apprentices shall be one (1) year (2000 hours) of reasonably continuous employment divided into two (2) equal pay periods of six (6) months duration, including the initial probationary period.

#### VI. <u>Ratio of Apprentices to Journey Level Workers:</u>

E.

[Please delete and replace the statements in this section in their entirety.]

- <u>1. Meatcutter:</u>
  - a. The ratio of apprentices to journey level workers shall be one (1) apprentice in each shop (meat market) where two (2) journey level workers are employed; two (2) apprentices where five (5) journey level workers are employed; and three (3)

#### FROM: Seattle - Puget Sound Meatcutters Apprenticeship Committee, #89

<u>apprentices where ten (10) journey level workers are employed. The number of</u> <u>apprentices in any shop shall not exceed three (3).</u>

- **b.** Shops whose owners work with the tools of the trade and work the major part of the day, and are employing one (1) journey-level worker shall be entitled to one (1) apprentice.
- 2. Fishmonger: The ratio of apprentices to journey level workers shall be two (2) apprentices in each shop (seafood market) where one (1) journey level worker\* is employed; three (3) apprentices where two (2) journey level workers are employed; and four (4) apprentices where four (4) journey level workers are employed. The number of apprentices in any shop shall not exceed four (4).
  - a. \*A journey level worker for the purposes of supervision and ratio will include "Seafood Market Manager" and "Seafood Market Lead" as soon as it can be demonstrated they have a minimum of 2000 hours of experience as a Seafood Market Manager or Lead.

#### VII. Apprentice Wages and Wage Progression:

[Please change "C" to regular boilerplate formatting as follows]

- C. Wage Progression Schedules
  - 1. Meatcutter, Retail
    - <u>a.</u> Pertains to those whose hire date precedes December 3, 2010 (employer must be a Committee Approved Training Agent):
    - **<u>b.</u>** Pertains to those whose hire date is December 3, 2010 or later <del>(employer must be a Committee Approved Training Agent)</del>:

#### 2. Fishmonger, Retail

Step	Number of hours/months	Percentage of journey-level	
		rate	
<u>1</u>	<u>0000 - 1000 hours/0 - 6 months</u>	<u>85%</u>	
2	<u>1001 - 2000 hours/7 - 12 months</u>	<u>90%</u>	

#### VIII. Work Processes:

**B.** Fishmonger, Retail

#### **Approximate Hours**

- 1. Cutting and Filleting Fresh Fish and Preparing Seafood for retail sale......750
- 2. Food and Workplace Safety: Sanitize work surfaces, knives and all processing equipment; store fish in accordance with best practices of food safety; label and package fish in accordance with safety protocols; safely dispose of spoiled products; perform safety inspections; conduct food safety audits; adopt best practices of personal hygiene including use of PPE; implement culture of safety

FROM:	Seattle - Puget Sound Meatcutters Apprenticeship Committee, #89
	including ergonomics, emergency response; and follow safety procedures and protocols for departmental maintenance and upkeep200
<u>3.</u>	<u>Customer Service: includes promotion of sales, responding to customer</u> <u>questions, making recommendations, and assisting with selection and</u> <u>preparation of various types of fish and seafood150</u>
<u>4.</u>	Interpersonal Skills: Collaborate with co-workers and supervisors on identifying and adopting best practices of workplace communications, time management, and team dynamics25
<u>5.</u>	<u>Market Math: Set prices; calculate product costs; determine profit margins</u> and markups; and manage shrinkage and spoilage
<u>6.</u>	<u>Cooking and recipes: Prepare and cook fish; describe cooking methods for</u> <u>seasonally available fish and seafood to customers; offer specific recipes to</u> <u>customers50</u>
<u>7.</u>	<u>Merchandising: product placement; pricing; packaging; signage and</u> <u>marketing; product assortment, demonstration and education; and product</u> <u>care50</u>
<u>8.</u>	<u>Seafood Counter Management: Portion, prepare, weigh and package</u> <u>seafood. Label seafood incorporating product, species, sustainability</u> <u>information, and method of catch200</u>
<u>9.</u>	Department Operations: Order, inventory, and stock control; prepare daily cutting lists; check orders received; ice and rotate stock, price products; prepare reports; and log invoices
<u>10</u>	<u>. Clean up and tool maintenance: sharpen knives, replace blades, and maintain equipment200</u>

TOTAL HOURS:2000

# IX. <u>Related/Supplemental Instruction:</u>

A. The methods of related/supplemental training must be indicated below (check those that apply):

(X) Other (specify): Sno-Isle TECH Skills Center and WeTrain Washington

# X. Administrative/Disciplinary Procedures:

- A. Administrative Procedures:
  - 3. Sponsor Procedures:

#### FROM: Seattle - Puget Sound Meatcutters Apprenticeship Committee, #89

- b. Related training class attendance is mandatory; apprentices must be on time for class and remain for the duration of the class.
  - **<u>1.</u>** The Apprenticeship Committee recognizes that 100% attendance can be difficult and allows for the following number of Excused absences per quarter:
    - Fall Quarter 3 Excused Absences
    - Winter Quarter 2 Excused Absences
    - Spring Quarter 1 Excused Absence

The difference in the number of Excused Absences is directly attributable to length of each Quarter.

- **1.** <u>2.</u> Unexcused absences are not acceptable. When the apprentice is sick or knows they will miss class, they must call the Instructor before class begins for consideration of an excused absence.
  - NO SHOW & NO CALL = Unexcused Absence.
  - <u>Three late arrivals = Unexcused Absence.</u>
- 2. Three late arrivals equal an unexcused absence.
- 3. Missed classes and late arrivals must be made up, <u>The apprentice is responsible</u> for assignments and materials covered in classes they were absent for, <u>regardless if the absence was excused or unexcused. The</u> the Instructor will provide the Apprentice with <u>make-up</u> assignments to make up for absences and late arrivals for every absence, and an additional make-up assignment for each excused absence that exceeds the allowable number of excused absences per quarter.
- 4. The Apprenticeship Committee will make a final determination on whether an absence or late arrival is considered excused or not.
- e <u>5.</u> The Apprenticeship Committee recognizes the need to take a vacation. <u>Therefore, with prior approval from the Instructor, a vacation will be</u> <u>considered an excused absence.</u> However, the apprentice must agree with the Instructor that all assignments will be completed within two weeks of the return to class from vacation. Failure to do so, may lead to an incomplete grade in the class. This will result in the apprentice being required to appear before the Apprenticeship Committee to give an Oral Report covering the missed lessons. Failure to appear, or to be prepared to present an Oral Report, may result in disciplinary action, or suspension or cancellation of the apprenticeship agreement.
- c. Each apprentice must report OJT hours. OJT hours are reported using an approved app-based timecard system. This system requires the apprentice to submit timecards weekly showing the number of hours worked in each of the Work Processes outlined in Section VIII for Meatcutter or Fishmonger. If an

#### FROM: Seattle - Puget Sound Meatcutters Apprenticeship Committee, #89

apprentice does not keep up-to-date in the submission of weekly OJT timecards, they may be subject to disciplinary action by the sponsor.

- d. Employer (Training Agent) management:
  - 1) <u>1.</u> The Employer is obligated to see that the apprentice attends related training classes regularly. The apprentice must be released from work obligations corresponding to scheduled realated related training classes.
  - <u>2.</u> The Employer must rotate apprentices in the various work processes to assure # well-rounded, competent journey level <u>mMeatcutters and</u> <u>Fishmongers</u>.
  - 3) <u>3.</u> In the event an apprentice is having problems or issues related to RSI classes or OJT training, the Committee will contact the Employer to discuss the issue with the Meat Market <u>Manager</u>, <u>Seafood Market Manager</u>, or Store Manager. If the problems or issues continue, the Employer will be contacted <u>again</u> and an Employer representative will be invited to attend the next scheduled Apprenticeship Committee meeting.
- B. **Disciplinary Procedures:** 
  - 3. Sponsor Disciplinary Procedures:
    - a.
    - b. An apprentice who does not correct related training attendance issues <u>or report</u> <u>OJT weekly according to the Work Processes outlined in Section VIII</u> will cause the Apprenticeship Committee to:
      - 1) <u>1.</u> Contact the apprentice by phone call to their residence and/or work location to discuss the issue of related training absences. The goal is to resolve the issue and for the apprentice to agree to resume attending related training classes <u>and/or submitting OJT hours weekly</u>.
      - 2) 2. If the attendance issue does not improve and/or the submission of weekly OJT reports is not improved, a twenty-day advance notice to appear before the Apprenticeship Committee for possible disciplinary action will be sent to the apprentice. A copy of this notice will be sent to the Employer. The Apprenticeship Committee may require the apprentice to attend additional related training classes and commit to attending all future RSI classes, be given a deadline to catch up with OJT hour reports and commit to timely reporting of OJT hours going forward, or suspend or cancel the apprenticeship agreement, or take any other action the Committee deems appropriate.

#### XI. <u>Sponsor – Responsibilities and Governing Structure:</u>

E. <u>Committee governance (see WAC 296-05-009)</u>:

1.

# [Please delete and replace the committee in its entirety]

c. The employer representatives shall be:

Heather Bolewicki, Chair Metropolitan Market 45529 141<sup>st</sup> Street PO Box 1625 North Bend, WA 98045

Michael Saia Safeway 200 South 3<sup>rd</sup> Street Renton, WA 98026 Jeff Sotto PCC Community Markets 313 Elliott Ave, Suite 500 Seattle, WA 98121

Michael Fodness Town & Country Markets <mark>Street address</mark> City, State, Zip Code

Roger Statler, Alternate QFC 14200 NE 171<sup>st</sup> Street Woodinville, WA 98004

d. The employee representatives shall be:

Greg Brooks, Secretary 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134

Brian Patterson 5030 1<sup>st</sup> Ave South Suite 200 Seattle, WA 98134

Patrick Donnelly, Alternate 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134

Adrian Noel, Alternate 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134 Preston Britt Jr. 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134

Rachel Barker 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134

Andy Heyman, Alternate 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134

Chris Crawford, Alternate 5030 1<sup>st</sup> Ave South, Suite 200 Seattle, WA 98134