

Received: L&I Tukwila  
November 16, 2021

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



# REQUEST FOR REVISION OF STANDARDS

*Sandra K. Husband*  
L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

*Teri Gardner 12-6-2021*

From: City of Seattle, Washington Apprenticeship Committee, #208  
(NAME OF PROGRAM STANDARDS)

Please update our Standards of Apprenticeship to reflect the following changes.  
Additions shall be underlined.  
Deletions shall be ~~struck through~~.  
See attached.

Authorized signatures

(chr.)   
(sec.)

Approved by:  
Washington State Apprenticeship & Training Council

Secretary of WSATC:

date:

10-29-2021

date:

attach additional sheets if necessary

# City of Seattle, Washington Apprenticeship Committee, #208

## VIII. Work Processes:

### J. Meter Electrician:

### Approximate Hours

[Sponsor requests the two paragraphs below be combined into a single (1) paragraph.]

The apprentice shall receive the instruction and experience necessary to become a practical and skilled journey person versed in the theory and practice of this trade. Apprentices in this trade shall receive a minimum of three (3) years/6,000 hours of training divided among the following sections.

Exceptions, modifications, deletions or reassignments may be made on pre-approval of the ECAC with recommendation to the JATC for adoption. These considerations will in no event lessen the total hours allocated for this program and/or exposure for the apprentice.

- |  |                             |
|--|-----------------------------|
| 1. Installation.....   | <u>1800</u> <u>2000</u>     |
| a. Single phase self-contained meters                                |                             |
| b. Single-phase transformer-rated meters                             |                             |
| c. Poly-phase self-contained meters                                  |                             |
| d. Poly-phase transformer-rated meters                               |                             |
| e. Instrument transformers   |                             |
| f. Customer related trouble calls                                    |                             |
| g. <del>Disconnect and reconnection for non-pay and no contact</del> |                             |
| h. <del>Demand metering</del>  |                             |
| i. <del>Power factor metering</del>                                  |                             |
| j g. Totalized metering  |                             |
| k h. <u>Dispatching Crew Coordination</u>                            |                             |
| l i. Primary metering system   |                             |
| <br>   |                             |
| 2. Lab/Shop.....   | <u>1200</u> <u>800</u>      |
| a. <del>Meter Lab and Shop</del> .....                               | <del>(1300)</del>           |
| (1) a. Meter testing (lab)   |                             |
| (2) b. Meter (field) programming                                     |                             |
| (3) c. Meter recycling   |                             |
| (4) d. Shop practices  |                             |
| (5) <del>Machine tool work</del>                                     |                             |
| (6) e. Instrument transformer testing                                |                             |
| (7) f. Standards testing   |                             |
| (8) g. Instrument repair, calibration, and acceptance testing        |                             |
| (9) <del>Scaling and rescaling equipment</del>                       |                             |
| (10) h. Special fabrications   |                             |
| (14) i. Programming meter devices                                    |                             |
| <br>   |                             |
| b.3. Substation Metering.....  | <del>(500)</del> <u>500</u> |
| (1) a. Transformer loss compensation                                 |                             |
| (2) b. Transducer  |                             |
| (3) c. Station print-reading   |                             |
| (4) d. Energy and indicating meter and instrument maintenance        |                             |
| (5) e. Trouble calls   |                             |

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- (6) f. Intertie testing
- (7) g. Generation and co-generation metering
- h. Meter programming

## 34. Audit.....1500 1300

- a. ~~Meter and CT Testing – field~~
  - ~~(1) Hi-Bill complaints~~
  - ~~(2) Audit of new~~
  - ~~(3) Audit of existing~~
- b. ~~Current Diversion~~
  - ~~(1) Check meters~~
- c. ~~Substation metering~~
  - ~~(1) Transformer loss compensation~~
  - ~~(2) Transducer~~
  - ~~(3) Station print reading~~
  - ~~(4) Energy and indicating meter and instrument~~
  - ~~(5) Maintenance~~
  - ~~(6) Trouble Calls~~
  - ~~(7) Inertia testing~~
  - ~~(8) Generation and co-generation metering~~
- d. ~~Surveys (load profile)~~
  - ~~(1) Advanced Metering~~
  - ~~(2) Spreadsheets~~
- e. ~~Customer Complaints for Hi-Low Voltage~~
- f. ~~CLAMS/BANNER and Other Software~~
- g. ~~Installation Guidelines~~
- h. ~~Photography (documentation)~~

- a. Field testing (Meter accuracy and CT accuracy)
- b. Hi-Bill complaints
- c. High/low voltage investigation
- d. Current Diversion (Check Meters and Field Investigation)
- e. Surveys (Customer Requested and Conservation Load Survey)
- f. Meter data programs (CCB, MDM, Command Center)

## 4. General.....940 880

- a. ~~Voltage investigations~~
- b a. Distribution system recognition
- b. Work practices and procedures
- c. ~~High-voltage practices and techniques~~
- d c. Clearance and grounding procedures
- d. Meter record systems familiarization
- e. ~~Computer system familiarity~~ Familiarization with DPPS
- f. ~~Meter data handling~~ Service requirements
- g. ~~Familiarity with Electric Rates, Service Requirements, Construction Standards, National Electric Code, EUSERC~~ Construction standards
- h. ~~Map work~~ National Electric Code
- i. ~~New-product evaluation~~ EUSERC standards
- j. Customer relations

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5	<b>6. Safety</b> .....	160
	a. Safety meeting attendance	
	b. First-aid training	
	c. Care and inspection of safety equipment and PPE	
	d. OSHA and WISHA safety standards	
	e. Chapter 296-45 WAC ( <del>Electrical Workers Safety Rules</del> <u>Safety Standards</u> )	
	f. Driving safety	
6	<b>7. Unit <u>Outside Rotations</u></b> .....	<b>400 360</b>
	a. <u>Distribution – Overhead (40 hours) Underground Residential (40 hours)</u> .....	<u>40 80</u>
	b. <del>Underground residential Distribution</del> .....	<del>40</del>
	c. <u>Distribution - Network Underground (Cable Splicer)</u> .....	<u>40</u>
	d. <del>Station Construction and Maintenance</del> .....	<del>40</del>
	e. <del>Power Dispatchers</del> .....	<del>40</del>
	f. <del>Operators</del> .....	<del>40 16</del>
	g. <u>Electric Shop</u> .....	<u>40</u>
	h. <u>Customer Electrical Service/Service Reps – 8 hours each (Residential/Commercial/Service Eng.)</u> .....	<u>40 24</u>
	i. <del>Distribution Engineering</del> .....	<del>40</del>
	j. <u>Relay and Communications Relay (16 hours)/Communications (24 hours)</u> .....	<u>40</u>

Total Hours: 6000

~~All the foregoing work experience as herein noted is understood to mean as it pertains to the trade herein involved in these standards.~~

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PO Box 44530  
Olympia WA 98504-4530



# REQUEST FOR REVISION OF STANDARDS

*Sandra K. Husband*  
L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

*Teri Gardner 12-2-2021*

From: City of Seattle, Washington Apprenticeship Committee, #0208  
(NAME OF PROGRAM STANDARDS)

Please update our Standards of Apprenticeship to reflect the following changes.  
Additions shall be underlined.  
Deletions shall be ~~struck through~~.  
See attached.

Authorized signatures

(chr.)

*[Signature]*

(sec.)

date:

*11/24/2021*

Approved by:

Washington State Apprenticeship & Training Council

Secretary of WSATC:

date:

attach additional sheets if necessary

City of Seattle, Washington Apprenticeship Committee, #0208

VIII. WORK PROCESSES:

D. Drainage and Wastewater Collection Worker: Approximate Hours

1. ~~First Class: Introduction to safety, the DWW work environment and work practices~~ Onboarding, safety certifications, workplace expectations, CDL road training, Mentorship Matters, Journey of Water, Introduction to DWW system and crews, and Hands-On-Training.....400
2. ~~Rehab: Rehabilitation and installation of sewer lines and new structures.....600~~ 450
3. Line and Grade/Closed Circuit Television Inspection: Operation, maintenance and troubleshooting of all piped drainage and wastewater collection systems. Inspection of sewer lines using specialized equipment.....600 900
4. Underground Storage: Operation, maintenance and troubleshooting of all detention structures and settling basins .....600 900
5. Surface Water Management: Drainage system (including creeks and other natural drainage systems) inspection, operation, maintenance and troubleshooting .....600 900
6. ~~Closed Circuit Television Inspection: Inspection of sewer lines using specialized equipment.....600~~
76. First Response: Investigation of backups, voids and customer inquiries/concerns. ....600 450

Total Hours: 4000

IX. RELATED/SUPPLEMENTAL INSTRUCTION:

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

(X) Other (specify):

- **Approved Computer Based Training**
- **State-approved Private Training Agency**
- **Approved Qualified Journey Level In-house Instructors/Trainers.**
- **Certified Commercial Driver License Training**
- **Harris Institute of Technical Training**  
PO Box 33577, Seattle, WA 98133  
Office: (503) 901-6132  
Web: [www.metergod.com](http://www.metergod.com)

# City of Seattle, Washington Apprenticeship Committee, #0208

B. **SEE BELOW** Minimum RSI hours per year defined per the following [see WAC 296-05-015(6)]:

**Drainage and Wastewater Collection Workers:** Each apprentice shall enroll in and attend classes in subjects related to the trade ~~for not less than three hours weekly, during scheduled training weeks,~~ for a minimum of 144 hours per year during the term of apprenticeship. An apprentice scheduled to attend Related Supplemental Instruction (RSI) during regular working hours will be paid. PAID RSI Hours will be counted as RSI and not On the Job Training hours.

**Water Pipe Worker:** Each apprentice shall enroll in and attend classes in subjects related to the trade ~~for not less than three hours weekly, during scheduled training weeks,~~ for a minimum of 144 hours per year during the term of apprenticeship. An apprentice scheduled to attend Related Supplemental Instruction (RSI) during regular working hours will be paid. PAID RSI Hours will be counted as RSI and not On the Job Training hours.

## XII. **SUBCOMMITTEE:**

**Drainage and Wastewater Collection Worker Subcommittee**

**[Please delete and replace the subcommittee in its entirety]**

**The Employer Representatives Shall Be:**

**Brian Alabe  
Seattle Public Utilities  
700 Fifth Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018**

**Gene Calhoun  
Seattle Public Utilities  
700 Fifth Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018**

**Allen Taylor  
Seattle Public Utilities  
700 Fifth Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018**

**The Employee Representatives Shall Be:**

**Ruby Edwards  
Seattle Public Utilities  
700 Fifth Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018**

**Jeremy Watkins  
Seattle Public Utilities  
700 Fifth Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018**

**Scott Carey  
Seattle Public Utilities  
700 Fifth Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018**

# City of Seattle, Washington Apprenticeship Committee, #0208

## Water Pipe Worker Subcommittee

[Please delete and replace the subcommittee in its entirety]

### The Employer Representatives Shall Be:

**Charles Jackson, Secretary**  
Seattle Public Utilities  
700 Fifth Ave, Suite 4900  
Seattle, WA 98124-4018

**Chris Wolf**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
Seattle, WA 98124-4018

**Gisela Sanabria**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018

**Josh Werner**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
Seattle, WA 98124-4018

### The Employee Representatives Shall Be:

**Summer Hepburn, Chair**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
Seattle, WA 98124-4018

**Ryan Mendoza**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
Seattle, WA 98124-4018

**Tom Erickson**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
Seattle, WA 98124-4018

**Bruce Bentley**  
Seattle Public Utilities  
700 5th Ave, Suite 4900  
Seattle, WA 98124-4018