

For L&I Staff Use Only	
Received 5/26/2022 KENN-SNYS Received 6/8/2022 KENN-SNYS	<i>Teri Gardner 6-8-22</i>
L&I Apprenticeship Consultant	<i>Teri Gardner 6-1-22</i> 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: OPERATING ENGINEERS REGIONAL TRAINING PROGRAM JATC #058

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

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

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

<input type="checkbox"/> Chair	Date	<input type="checkbox"/> Secretary	Date
<input checked="" type="checkbox"/> Authorized Signer			5-23-22
Print Name: OLE FOELLSTAD		Print Name:	
Signature: <i>[Signature]</i>		Signature:	

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

Attach additional sheets if necessary

II. MINIMUM QUALIFICATIONS:

Education: **Applicants must have a high school diploma or State Equivalent Certification or G.E.D. at time of application. A Waiver waiver for a high school diploma/G.E.D. or State Equivalent may be granted for applicants who can provide documentation that they have worked two (2) or more years in the construction industry.**

III. CONDUCT OF PROGRAM UNDER WASHINGTON EQUAL EMPLOYMENT OPPORTUNITY PLAN:

The recruitment, selection, employment and training of apprentices during their apprenticeship shall be without discrimination because of race, sex (including pregnancy and gender identity), sexual orientation, color, religion, national origin, age, genetic information, disability or as otherwise specified by law. The sponsor shall take positive action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required by the rules of the Washington State Apprenticeship and Training Council and Title 29, Part 30 of the Code of Federal Regulations.

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A. Selection Procedures:

~~11. In order to meet affirmative action guidelines for minorities and women, the Apprenticeship Committee has the authority to make selections based on affirmative action requirements.~~

B. Equal Employment Opportunity Plan:

~~4. Direct referral into apprenticeship openings of IUOE Job Corps graduates successfully completing a specific trade. Pre-apprenticeship IUOE Job Corps program and Helmets-to-Hardhats referrals without regard to present eligibility lists.~~

~~5. Selection from lists of qualified applicants for apprenticeship, in other than order of ranking, to reach women (minority and/or non-minority) and/or minorities.~~

IX. RELATED/SUPPLEMENTAL INSTRUCTION:

C. Additional Information:

4. See addendums below for:

a. Objective Based Training - Apprentice Mechanic Requirements

PRACTICAL RELATED TRAINING:

<p>1. Welding**-Module 1</p>	<p><u>136 -148 hour course</u></p>	<p>136-148-hour <u>This</u> course which covers welding skills needed in the construction trades. Training in safety practices and procedures in accordance with federal and state standards. The course consists of instructor led shop and classroom welding instruction in the following processes. SMAW, FCAW, TIG, Oxyacetylene cutting and Welding, Air-Carbon arc processes. Print-reading for welding.</p>
<p>2. Hydraulics/Hydrostatics* Module 2</p>	<p><u>100-hour course</u></p>	<p>100-hour <u>This</u> course covers the hazards and safe working practices for hydraulic equipment. Includes theory and principles of pumps, motors, valves, cylinders, heat exchangers, accumulators, reservoirs, lines and conductors, flow meters and testing procedures, schematic reading, hydraulic symbols and both open and closed loop systems including labs, covering each topic.</p>
<p>3. Electrical Electrical/ECM* Module 3</p>	<p><u>100-hour course</u></p>	<p>100-hour <u>This</u> electrical course covering mobile construction equipment DC electrical circuits. Including theory and principles of AC and DC current, the hazards of working with DC and AC, generator, alternator, starter motors, D.C. Motors, controls and switching, power sources, charging systems, starting systems, testing and use of electrical test equipment, Electrical Schematic reading, Auxiliary electrical systems service of Electronic Control Modules: Electronic Control Systems for; Engines, Powertrain, Implement and Heating and Cooling systems with labs for each topic. Diagnostics for Electronic Control Modules including scanner systems and laptop computer diagnostics with labs for each topic.</p>
<p>4. Diesel Engine* Module 4</p>	<p><u>100-hour course</u></p>	<p>100-hour <u>This</u> course covers theory, principles and diagnostics as well as the safety aspects and concerns of working with diesel engines. Service of basic engine components; cylinder blocks, crankshafts and camshafts, pistons and liners, cylinder heads and valve trains, engine brakes and retarders. Engine</p>

		Support Systems; fluids and lubricants, cooling systems, exhaust - Turbocharger systems, Air induction systems. Engine Diesel Systems; Mechanical Injection, Electronic - Mechanical Injection, Electronic - Hydraulic Unit injection, Engine Governor - Operation, Emission Control Devices, Diesel exhaust emissions and labs covering each topic.
5. Powertrains/Powershift* Module 5	<u>100-hour course</u>	100-hour <u>This</u> course covering the safety procedures and hazards of working on Power-train systems of mobile equipment, Dry and oil clutches, Standard Transmissions, Bevel gear and steering clutches, Under-carriages and tracked equipment, Final drive reduction, gears, Bearings and seals. as well as theory and Principles of Operation of Power-shift transmissions, Torque Converters, Hydraulic Controls, Planetary Gear Trains including labs covering diagnostics and each topic.
6. Air/Hydraulic Brake System* Module 6	<u>100-hour course</u>	100-hour <u>This</u> course which covers the safety practices and procedures of working on Air and Hydraulic braking systems in accordance with Federal and State standards. Covers air and hydraulic braking systems, On and Off-Road vehicles with ABS systems, off road brake systems, Hydraulic brakes on automotive and mobile construction equipment, Booster Vacuum and Hydraulic assist Systems including labs covering diagnostics.
7. Labor History Education	<u>10-hour requirement</u>	10-hour requirement
<u>8. Anti- Harassment Training Program</u>	<u>30-minute</u>	<u>Individuals connected with the administration or operation of the Operating Engineers Regional Training Program to include apprentices and journey level workers shall participate in either on-line or in-person Anti-Harassment Training.</u>

b. Objective Based Training - Apprentice Construction Equipment Operator Requirements

POLICY FOR ADVANCEMENT OR EARLY COMPLETION:

Written and practical exams must be passed with a score of ~~80%~~ 85% or above.

PRACTICAL RELATED TRAINING:

<u>14. Anti- Harassment Training Program</u>	<u>30 minutes</u>	<u>Individuals connected with the administration or operation of the Operating Engineers Regional Training Program to include apprentices and journey level workers shall participate in either on-line or in-person Anti-Harassment Training.</u>
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c. Objective Based Training - Apprentice Hoisting Engineer Requirements

PRACTICAL RELATED TRAINING:

<u>11. Anti- Harassment Training Program</u>	<u>30 minutes</u>	<u>Individuals connected with the administration or operation of the Operating Engineers Regional Training Program to include apprentices and journey level workers shall participate in either on-line or in-person Anti-Harassment Training.</u>
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XIII. TRAINING DIRECTOR/COORDINATOR:

Lacey A. Hall, Training Coordinator
16921 Vantage Highway
Ellensburg, WA 98926