### RECEIVED 8/05/2020 TUK/bk

August 5, 2020

Mr. Jody Robbins, Program Manager Department of Labor and Industries, Apprenticeship Section PO Box 44530 Tumwater WA 98504-4530 Subject: Decline to Sign Letter Teri Gardner 8-17-2020

Mr. Robbins:

I decline to sign the <u>Request for Revision of Standards</u> from KCMT/ATU Apprenticeship Committee #2141, submitted August 5, 2020.

The proposed revision to Section IX Related/Supplemental Instruction: B. Heavy Duty Mechanic includes a provision to permit apprentices who have completed the full time Heavy Diesel program at Lake Washington Technical College in the first two years of the term of apprenticeship, to **not** be required to attend the full 144 hours in years three (3) and four (4) of the term of apprenticeship.

This language results in a variance from WAC 296-05-015 (6), which states; **Related Supplemental Instruction shall not be less than 144 hours per year**.

Best Regards,

Bruce L. Koch

Bruce L. Koch, Apprenticeship Consultant - Region 2 12806 Gateway Drive South Seattle, WA 98168 206-835-1047 Bruce.Koch@lni.wa.gov

Teri Gardner 9-10-2020

BECEIVE

9/10/2020 TUK/declined

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



### REQUEST FOR REVISION **OF STANDARDS**

RECEIVED 8/05/2020 TUK/bk

L&I apprenticeship coordinator

TO: Washington State Apprenticeship & Training Council

Teri Gardner 8-17-2020

From: King County Metro Transit/ATU 587 Apprenticeship Committee #2141
(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	
(ch/)	Approved by:
Land Grand	Washington State Apprenticeship & Training Council
(seg.) 9/10/20	Secretary of WSATC:
date: 4/20	date:

Teri Gardner 9-10-2020

Occupational Objective(s):

SOC#

Term [WAC 296-05-

015]

**HEAVY DUTY BUS MECHANIC** 

49-3031.00

8,000 5,000 -6,000

HOURS

**ELECTRONIC TECHNICIAN (ET)** 

17-3023.01

<u>5,000 – 6,000</u> HOURS

Sponsor Introductory Statement (Required):

The purpose of this program is to establish an on-the-job training Apprenticreship program which will lead to the status of certified journey-level mechanic and journey level ET.

#### II. MINIMUM QUALIFICATIONS:

Physical:

Must be able to lift up to 50 pounds. None

### IV. TERM OF APPRENTICESHIP:

The term of the <u>Heavy Duty Bus Mechanic</u> apprenticeship will be 48 months/8,000 5,000-6,000 hours.

The term of the ET apprenticeship will be 48 months/5,000-6,000 hours.

#### VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS:

E. The ratio must be described in a specific and clear manner, as to the application in terms of job site, work group, department or plant:

There will not be more than one (1) <u>Heavy Duty Bus Mechanic</u> apprentice to every five (5) journey-level <u>Mechanics workers</u> in each KCMT shop.

There will not be more than one (1) ET apprentice to every five (5) journey-level ETs in each KCMT shop. In cases where there are less than five journey-level ETs, there shall be no more than one (1) apprentice.

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

#### C. Heavy Duty Bus Mechanic/ET

wage rate*
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1	0000- <del>2000</del> 1500 hours/0-12 months	70%
2	<del>2001-4000</del> 1501-3000 hours/12-24 months	80%
3	4001-6000 <u>3001-4500</u> hours/24-36 months	90%
4	6001-80004501-6000 hours/36-48 months	95%

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### VIII. WORK PROCESSES:

A. <u>He</u>	eavy Duty Bus Mechanic	<b>Approximate Hours</b>
1.	Differential rebuild	<del>126</del> <u>75-90</u>
2.	Electric Shop	411 270-325
3.	Engine Fuel and Air Components	<u>126</u> <u>75-90</u>
4.	Engine Rebuild	632 385-465
5.	Machine Shop	<u>190</u> <u>115-140</u>
6.	Small Component Rebuild	126 75-90
7.	Transmission Rebuild	632 385-470
8.	Charging and Starting Systems	<u>253</u> <u>75-90</u>
9.	Engine T/S and Repairs	316 230-280
10.	Inspections (Diesel Coach)	<u>190</u> <u>115-140</u>
11.	Transmission/Hybrid T/S and Repair	316 250-300
12.	Air and Brakes	
13.	Alignment and Suspension	316 190-230
14.	Axles, Differentials and Drivelines	<u>190</u> <u>190-230</u>
15.	HVAC	379 230-280
16.	Lifts and ADA Ramps	190 75-90
17.	Low Voltage Electrical	696 460-500
18.	Miscellaneous Repair	632 385-460
19.	Road Calls and Wrecker	<u>253</u> <u>155-190</u>

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King County Metro	Transit/ATU 587	Apprenticeship	Committee #2141
		The second secon	- 1 1 1

U	anty Metro Transitivi o 301 Apprenticeship o	Offinition HZ 141
		Teri Gardner 9-10-2020
	20. Current Collection	<del>190</del> 115-140
	21 ET Cl. I V.V. E. L. IC'	(5.75.00
	21. ET Shop - Low Voltage, Fare box and Signs	<del>65</del> <u>/5-90</u>
	22. High Voltage/Propulsion	<del>569</del> 345-420
	22 I ( (T II C I)	100 117 140
	23. Inspections (Trolley Coach)	<del>190</del> <u>115-140</u>

Total Hours: 8,000-5,000-6,000

B. Electronic Technician	<b>Approximate Hours</b>
1. Tools & Test Equipment	70-80
2. Trolley Propulsion	1,550-1860
3. Hybrid Propulsion	450-540
4. BEB Propulsion	670-800
5. <u>ESS</u>	450-540
6. <u>Camera Systems</u>	220-270
7. OBS Systems	450-540
8. PLC Systems	200-240
9. Farebox	670-800
10. Destination Signs	120-150
11. Onboard Communication Systems	150-180
Total Hour	rs: 5,000-6,000

#### IX. RELATED/SUPPLEMENTAL INSTRUCTION

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C. Additional Information:

Apprentices Heavy Duty Bus Mechanic apprentices will receive 1,650 hours (Lake Washington Institute of Technology) or 1936 hours (South Seattle Community College) of RSI (as directed by the KCMT Apprenticeship Committee) over the course of their apprenticeship. Please note, the RSI is delivered during the first two (2) years as part of the Heavy Duty Diesel program offered by the Washington State Community and Technical College system. Consequently, during years three (3) and four (4), they may not achieve the required 144 hours of RSI per year.

Electronic Technician apprentices will receive 1413.5 hours of RSI (as directed by the KCMT Apprenticeship Committee) over the course of their apprenticeship. Please note, the RSI is delivered based on availability at the college and typically takes place the first two (2) years. It is part of the Electronics program at North Seattle College and the Washington State Community and Technical College system. Consequently, during years three (3) and four (4), they may not achieve the required 144 hours of RSI per year.

### X. <u>ADMINISTRATIVE/DISCIPLINARY PROCEDURES:</u>

#### A. Administrative Procedures:

#### 3. Sponsor Procedures:

- 1. <u>a.</u> Apprentices will be governed by the Labor Agreement, King County Metro Transit's Policies and Procedures, KCMT's Apprentice Mechanic 4 year track Program, KCMT's ET Apprentice Program and the State of Washington Apprenticeship and Training Council. The King County Metro Transit's Policies and Procedures shall be available from the Training Director.
- 2. <u>b.</u> Upon acceptance into the program, the Apprentice Mechanic shall be in possession of a starter set of tools (as determined by the KCMT Apprenticeship Committee). The list of starter tools shall be available from the Training Director.
- 3. <u>c.</u> The Program Coordinator, Chief and Lead Mechanic <u>or Lead ET</u> will be responsible for the hands on work at the base. They will work together with the apprentice to keep the apprentice on track and learning the needed skills.
- 4. <u>d.</u> The apprentice will be required to take courses on all subjects as determined by the KCMT Apprenticeship Committee. Courses and fees will be paid by KCMT.
- 5. <u>e.</u> Apprentices will be required to complete Task Sheets for each area of hands on work as outlined in the <u>applicable</u> Apprentice Program manual. The

Apprentice Program Manual and Task Sheets shall be available from the Training Director.

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- 6. <u>f.</u> Apprentices will be required to obtain a CDL (class A Mechanic) or (class B ET) class A license with a <u>P1Passenger</u> endorsement and the air brake restriction removed, within the first 180 days of employment. <u>KCMT will provide training and hands on testing to obtain their CDL.</u>
- 7. <u>g. Apprentices are required to attend a college level Heavy Duty Diesel</u> program (approved by the KCMT Apprenticeship Committee) and maintain a minimum quarterly GPA of 2.5.
  - i. Heavy Duty Diesel program Mechanic
  - ii. Electronic Technician program ET

### XI. SPONSOR – RESPONSIBILITIES AND GOVERNING STRUCTURE

- E. Committee governance (if applicable): (see WAC 296-05-009)
  - 1.
  - c. The employer representatives shall be:

John Palumbo
<u>Transit Maintenance Analyst</u>
11911 East Marginal Way S.
Tukwila, WA 98168

d. The employee representatives shall be:

Jeff Stambaugh
587 E-Board Member
2815 Second Ave Suite 203
Seattle, WA 9812

Mike Rochon 587 E-Board Member 2815 Second Ave Suite 203 Seattle, WA 98121



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



# Journey Level Wage Rate

From which apprentices' wages rates are computed

TO: Washington State Apprenticeship & Training Council

From King County Metro Transit/ATU 587 Apprenticeship Committee #2141

(NAME OF STANDARDS)

Occupations	County(s)	Journey Level Wage Rate	Effective Date:
Electronics Technician	King	\$39.37	8/4/20

Teri Gardner 8-17-2020

### RECEIVED 8/05/2020 TUK/bk

## Apprenticeship Related/Supplemental Instruction (RSI) Plan Review

Program Sponsor	
King County Metro (KCM)	
Skilled Occupational Objective Electronic Technician	
Term/OJT Hours	Total RSI Hours
5000 - 6000	1413.5
Training Provider	
North Seattle College	\
By the signature placed below, the <b>program sponsor</b> a apprenticeship and assures that:	agrees to provide the prescribed RSI for each registered
<ol> <li>The RSI content and delivery method is and rem practices, improvements, and technical advance</li> </ol>	nains reasonably consistent with the latest occupational es.
2. The RSI is coordinated with the on-the-job work	experience.
<ol> <li>The RSI is provided in safe and healthful work p federal and state regulations.</li> </ol>	ractices in compliance with WISHA and applicable
Dan Brand – Committee Chair	1) Jan Da = = a)
Printed Name of Program Sponsor	Signature of Program Sponsor
By the signature placed below, the training provider as	ssures that:
<ol> <li>The RSI will be conducted by instructors who me described in WAC 296-05-003.</li> </ol>	eet the qualifications of "competent instructor" as
<ul> <li>Has demonstrated a satisfactory employed of three years beyond the customary lear</li> </ul>	ment performance in his/her occupation for a minimum ming period for that occupation; and
technical instructor (see WAC 131-16-08	d Technical Colleges requirements for a professional 0 through -094), or be a subject matter expert, which is who is recognized within the industry as having
	adult learning styles, which may occur before or within for has started to provide the related technical
<ol><li>If using alternative forms of instruction, such as a such instruction is clearly defined.</li></ol>	correspondence, electronic media, or other self-study,
Aaron Korngiebel	11/2
Print Name Training Provider	Signature of Praining Provider
Door of Marketon Instruction	North Callege
Dean of Workforce Instruction Title of Training Provider	North Seattle College Organization of Training Provider
If there are additional training providers, please provide	
Additional Resources: <u>Apprenticeship Related Supple</u> (F100-519-000) and <u>Apprenticeship Related Supplement</u> (2000).	
SBCTC Program Administrator has reviewed RSI plan	and recommendations of the Trade Committee.
Click or tap here to enter text.  Print Name of SBCTC Program Administrator Signature of	SBCTC Program Administrator Date
☐ SBCTC recommends approval	☐ SBCTC recommends return to sponsor
1,500 %	The second secon

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

Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
Click or tap here to enter text.	Click or tap here to enter text.
Title of Training Provider	Organization of Training Provider
Click or tap here to enter text.	
Print Name Training Provider	Signature of Training Provider
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Title of Training Provider	Organization of Training Provider

Program Sponsor:	Skilled Occupational Objec		
Click or tap here to enter text.	Click or tap here to enter	text.	
<b>Note:</b> The description of each element must be in suffice by the SBCTC and Review Committee. To add more element/course" field.			
Describe minimum hours of study per year in terms	of (check one):		
☐ Defined 12-month school year.			
□ 2,000 hours of on-the-job training.			
, ,			
Element/Course: EET 106 INTRODUCTION TO SOLD	ERING	Planned Hours:	16.5
Mode of Instruction (check all that apply)		I	
□ Classroom   □ Lab  □ Online □ Self-Study			
Provided by: North Seattle College			
Description of element/course:			
Develop competent soldering skills in removing and replaci	= -		
component or the printed circuit boards. Learn techniques	to select the proper solder, s	soldering aids, tools a	and other
associated test equipment.			
Element/Course: EET 107 INTRODUCTION TO AVIA	TION ELECTRONICS	Planned Hours:	77
Mode of Instruction (check all that apply)			
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study			
Provided by: North Seattle College			
Description of element/course:			
This course presents an overview of aviation electronics and		•	
aviation. Includes an introduction to blueprint/schematic re		ctrical safety, tools, ji	gs, and
fixtures, and basic connectors, plugs, cables and wiring, shi	elding.		
		Γ = -	
Element/Course: EET 108 INTRODUCTION TO FI	BER OPTICS	Planned Hours:	77
Mode of Instruction (check all that apply)			
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study			
Provided by: North Seattle College  Description of element/course:			
Introduces fiber optics theory and maintenance as applied	o Information Technology	Δerosnace hroadhan	d and
generic use. Emphasis on hands on labs using industry stand		•	a ana
installation, cleaning, measurement, and inspection proces		ent, salety, routing,	
installation, cleaning, measurement, and inspection proces	ses.		
Element/Course: EET 109 MATHEMATICAL APPLICA	TIONS FOR CIRCUIT	Dlannad Haura	EE
ANALYSIS	TIONS FOR CIRCUIT	Planned Hours:	55
Mode of Instruction (check all that apply)			
□ Classroom □ Lab □ Online □ Self-Study			
Provided by: North Seattle College			
Description of element/course:			
This is an overview of basic mathematical applications for e	lectronic circuit analysis. Inc	cludes fundamental o	oncepts
of operations with numbers, the metric system, fundament	al algebraic concepts, graph	ing, exponential and	
logarithmic functions, right angle triangles, basic trig function	ons, vectors and complex nu	mbers.	

Element/Course: EET 114 Applied Physics	Planned Hours:	55
Mode of Instruction (check all that apply)		
□ Classroom □ Lab □ Online □ Self-Study		
Provided by: North Seattle College		
Description of element/course:		
Applied Physics is a comprehensive and practical coverage of physics for students in		
course covers the basic laws of physics as applied to mechanics, matter and heat, wa	ave motion and sound, e	lectricity
and magnetism, light and modern physics. Physical concepts as applied to industrial-	-technical fields are emp	hasized.
Applications are used to improve the physics and mathematics competence of the st	tudent.	
Element/Course: EET 131 IT ESSENTIALS – A+ CERTIFICATION	Planned Hours:	77
Mode of Instruction (check all that apply)		
Provided by: Click or tap here to enter text.		
Description of element/course:		
This course is part one of a two course series that addresses the body of knowledge	·	-
A+ Certification. The emphasis is on the fundamentals of installing, maintaining and	configuring, computer h	ardware,
operating systems, networks and security systems. Taught in conjunction with Cisco	Academy using IT Esser	itials
Curriculum with an emphasis on customer service. Part one prepares students for the	e CompTIA A+ Essentials	s test.
Element/Course: EET132 IT ESSENTIALS - A+ CERTIFICATION (ADVANCED)	Planned Hours:	77
Mode of Instruction (check all that apply)		
□ Classroom    □ Lab    □ Online    □ Self-Study		
🗠 Classicotti 🔗 Lab 🖾 Ottlitte 🗀 Sell-Study		
,		
Provided by: Click or tap here to enter text.  Description of element/course:		
Provided by: Click or tap here to enter text.	required for the current	CompTIA
Provided by: Click or tap here to enter text.  Description of element/course:		
Provided by: Click or tap here to enter text.  Description of element/course:  This course is part two of a two course series that addresses the body of knowledge A+ Certification. The emphasis is on advanced aspects of installing, maintaining and	configuring, computer h	ardware,
Provided by: Click or tap here to enter text.  Description of element/course:  This course is part two of a two course series that addresses the body of knowledge A+ Certification. The emphasis is on advanced aspects of installing, maintaining and operating systems, networks and security systems. Taught in conjunction with Cisco	configuring, computer h Academy using IT Esser	ardware, itials
Provided by: Click or tap here to enter text.  Description of element/course:  This course is part two of a two course series that addresses the body of knowledge A+ Certification. The emphasis is on advanced aspects of installing, maintaining and operating systems, networks and security systems. Taught in conjunction with Cisco Curriculum. Part two prepares students for the CompTIA A+ IT Technician or Remot	configuring, computer h Academy using IT Esser	ardware, itials
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Element/Course: EET 162 AC PRINCIPLES OF ELECTRONICS	Planned Hours:	77
Mode of Instruction (check all that apply)		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: North Seattle College		
Description of element/course:  AC theory and fundamental principles as applied to electricity, electrical, and electronic	ic tarms and units: intr	oduction
to AC measuring devices and circuits as well as AC circuit analysis.	ic terms and amics, mic	oduction
to Ac measuring devices and circuits as well as Ac circuit analysis.		
Element/Course: EET 163 SOLID STATE ELECTRONICS	Planned Hours:	77
Mode of Instruction (check all that apply)	Flatilieu Hours.	11
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: North Seattle College		
Description of element/course:		
Analysis of characteristics of semiconductor devices and their application in common e	electronic circuits. Cou	rse begins
with construction of simple power supplies and move to more complex amplifier circu	its and regulators. Cor	struction
and measurement of devices and circuit parameters verify math analysis of circuit des	igned.	
Element/Course: EET 165 ANALOG CIRCUITS AND DEVICES	Planned Hours:	77
Mode of Instruction (check all that apply)		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: North Seattle College		
Continued analysis of characteristics of analog semiconductor devices and their applic		
circuits. Explanation and analysis of field-effect transistors (FETs), thyristors, and opera		
nomenclature and identification, characteristics, parameters and basic circuit application	ions. Explanation and a	analysis of
special-purpose diodes (particularly the zener) and their applications.		
Element/Course: EET 170 DIGITAL ELECTRONICS & PLCS I	Planned Hours:	77
Mode of Instruction (check all that apply)		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: North Seattle College  Description of element/course:		
Fundamentals of digital electronics and interface circuits. Course covers number syste	ms. logic gates. Boolea	n algebra
and logic simplification (including DeMorgan's theorems and Karnaugh maps), encode		_
and demultiplexers, and an introduction to flip-flops, and an introduction to programm		•
and definition of the second o		(. 200).
Element/Course: EET 171 DIGITAL ELECTRONICS & PLCS II	Planned Hours:	77
Mode of Instruction (check all that apply)	1	
□ Classroom   □ Lab □ Online □ Self-Study		
Provided by: North Seattle College		
Description of element/course:		
Fundamentals of digital electronics and interface circuits, continued. Course covers flip	•	
and state machines, multivibrators (including the 555 timer IC), programmable logic, d	•	•
analog-to-digital and digital-to-analog conversion and interfacing applications, introdu	ction to microprocesso	ors and
programmable logic controllers (PLCs).		
Element/Course: EET/EEL 201 ENERGY GENERATION & CONVERSION	Planned Hours:	77
Mode of Instruction (check all that apply)		
☐ Classroom ☐ Lab ☐ Online ☐ Self-Study		
Provided by: North Seattle College  Description of element/course:		
Covers the principles of electrical machines (AC and DC rotating equipment, including	wind turbine technolo	gv) used
in electrical generation and conversion to mechanical energy. The course reviews fund		
magnetism, transformers, and single-phase circuits; three-phase circuits are introduce	•	,

Element/Course: EET/EEL 202 INDUSTRIAL MOTOR CONTROLS AND DRIVES	Planned Hours:	77
Mode of Instruction (check all that apply)		
□ Classroom   □ Lab □ Online □ Self-Study		
Provided by: North Seattle College		
Description of element/course:		
This Industrial Power and Control Technology course covers electromagnetic and electr	onic control and drive	e devices
and circuits used for starting, accelerating, stopping, reversing, and protecting industria	I AC and DC motors.	
Element/Course: EET/EEL 203 PROGRAMMABLE LOGIC CONTROLLERS	Planned Hours:	77
(PLCs)		• •
Mode of Instruction (check all that apply)	1	
□ Classroom    □ Lab    □ Online   □ Self-Study		
Provided by: North Seattle College		
Description of element/course:		
This course describes the fundamentals of programmable logic controller (PLC) systems	s. including how PLCs	work and
providing practical information and skills about installing, programming, and troublesho	_	
providing practical information and skins about instanting, programming, and troublesite	Journal Le Systems.	
Flore ant/Course. IT 400 INTRODUCTION TO PROCEAMAING	Diamand Haura	FF
Element/Course: IT 102 INTRODUCTION TO PROGRAMMING  Mode of Instruction (check all that apply)	Planned Hours:	55
⊠ Classroom ⊠ Lab □ Online □ Self-Study		
•		
Provided by: North Seattle College  Description of element/course:		
This course describes the fundamentals of programmable logic controller (PLC) systems	including how DI Co	work and
providing practical information and skills about installing, programming, and troublesho	•	work and
	inting PLC Systems	
providing practical information and skins about installing, programming, and troublesing	soung i Le systems.	
		110
Element/Course: ENGL 097/098 College Preparatory Reading and Writing IV	Planned Hours:	110
Element/Course: ENGL 097/098 College Preparatory Reading and Writing IV  Mode of Instruction (check all that apply)		110
Element/Course: ENGL 097/098 College Preparatory Reading and Writing IV  Mode of Instruction (check all that apply)  ⊠ Classroom □ Lab ⊠ Online □ Self-Study		110
Element/Course: ENGL 097/098 College Preparatory Reading and Writing IV  Mode of Instruction (check all that apply)  ⊠ Classroom □ Lab ⊠ Online □ Self-Study  Provided by: North Seattle College		110
Element/Course: ENGL 097/098 College Preparatory Reading and Writing IV  Mode of Instruction (check all that apply)  ☑ Classroom ☐ Lab ☑ Online ☐ Self-Study  Provided by: North Seattle College  Description of element/course:	Planned Hours:	
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