

2019 Sierra Pacific Power Company dba NV Energy

and IBEW Local #1245 IJ Standards of Apprenticeship

# SIERRA PACIFIC POWER COMPANY (dba NV ENERGY) and IBEW LOCAL #1245

Occupation – Utility Fleet Mechanic (Existing Occupation Title: Transit Bus Technician) O-NET Code: 49-3031.00 RAPIDS Code: 0124CB Competency-Based Apprenticeship Program

- √ Similar Program Notice Letters
- ✓ Form 5910 Application for Approval On-the-Job Training & Apprenticeship
- ✓ U.S. Department of Labor Apprenticeable Occupation List ONET Code Confirmation
- √ Appendix A Checklist
- ✓ Appendix A Work Process Schedule and RTI Outline

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January 10, 2020

Brian Prather Operating Engineers Local 3 JATC 1290 Corporate Blvd Reno, NV 89515

Dear Brian,

The State Apprenticeship Council will be considering the approval of an additional occupation for Sierra Pacific Power Company at its meeting on February 13, 2020.

In accordance with NAC 610.355, when the Council considers approving a new apprenticeship occupation by an employer or association of employers, the Council must notify existing program sponsors with similar objectives for similar jobs and give them between 30 and 60 days to comment before final action on the proposed occupation is taken.

It has come to our attention that the occupation under consideration for approval by the Council is Utility Fleet Mechanic. Our records indicate that your organization has similar occupations.

Attached you will find the standards and accompanying appendices for the proposed occupation. The State Apprenticeship Council will welcome any comments you may have.

Thank you.

Sincerely,

Richard J. Williams

State Apprenticeship Director

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January 10, 2020

Larry Hopkins Operating Engineers Local 12 JATC 6350 Howdy Wells Avenue Las Vegas, NV 89115

Dear Larry,

The State Apprenticeship Council will be considering the approval of an additional occupation for Sierra Pacific Power Company at its meeting on February 13, 2020.

In accordance with NAC 610.355, when the Council considers approving a new apprenticeship occupation by an employer or association of employers, the Council must notify existing program sponsors with similar objectives for similar jobs and give them between 30 and 60 days to comment before final action on the proposed occupation is taken.

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Attached you will find the standards and accompanying appendices for the proposed occupation. The State Apprenticeship Council will welcome any comments you may have.

Thank you.

Sincerely,

Richard J. Williams

State Apprenticeship Director

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# STATE OF NEVADA Office of the Labor Commissioner Nevada State Apprenticeship Council

# APPLICATION FOR APPROVAL ON THE JOB TRAINING & APPRENTICESHIP

Program Name: Sierra Pacific Powe	r Company (	<u>d/b/a NV E</u>	nergy)		12			Program # <u>N\</u>	/002700001
ddress: 6100 Neil Road			City	/State_	Reno, NV	-	Zip_ <b>8952</b>	Telephone	775-834-5735
Contact Person: Nanette Quitt, Laborade: 0124CB	r Relations I		ype of Progra					C Code: 49-3031.0	0 RAPIDS
									(a)
Type of Action: (Check One) A. Wage Increase B. Revision of Standards C. New Occupation D. New Program	C. Group U	<mark>ial Union</mark> al Non Unio	on .	A <mark>. N</mark>	ney Workers o. JW: 11 o. of Emplo			Pay Period (Circ Weekly Bi-Weekly Semi Monthly Pay Increases ( 3 6 12 Oth	Months)
RADE INFORMATION								w 8	
Occupation (use separate form for each occupation)	Term (C hours)	JT	RTI (Classroom hours)	# Of work	Journey ers		f orentices in ining	Journey worker Hourly Rate	Days per Week
Mechanic, Fleet Utility	2,000		144 Minimium	1'		0		\$39.41	5
OCCUPATION OCCUPATION	PERIOD (Execution 18T Start	2 <sup>ND</sup> 6 mont	3RD		4 <sup>TH</sup> 18 Month		Line Percenta	iges	
Apprentice, Mechanic-Utility Flee	\$33.33	\$34.10	\$35.0	)7	\$36.57				
								•	
Instructor		Occupation	on			. a	Experience (	(Years)	
Ryan Peterson			nan Heavy E Equipment <i>A</i>		uipment Mechanic & 21 Years			8	
Tom Rich	Fleet Coordinator & Supervisor				17 Years				
Randall Ward FI			nagement Sເ	perviso	or		37 Years		
0/1/2019					No	ane	tte Qua	tt	
Date	g 224						n Coordinator		
		DO NO	T WRITE	BELOV	V THIS LII	NE			
Approved:							6.		
Disapproved:				Se	cretary Dire	ctor o	f Apprenticesh	nip	Date

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# SIERRA PACIFIC POWER COMPANY (dba NV ENERGY) and IBEW LOCAL #1245

Occupation – Utility Fleet Mechanic (Existing Occupation Title: Transit Bus Technician) O-NET Code: 49-3031.00 RAPIDS Code: 0124CB Competency-Based Apprenticeship Program

U.S. Department of Labor Apprenticeable Occupation List:

TRANSIT BUS TECHNICIAN	0124CB	49-3031.00	*CB	СВ	
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Link to list: <a href="https://www.doleta.gov/oa/occupations.cfm">https://www.doleta.gov/oa/occupations.cfm</a>

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4				



Standards Placement	29 CFR, NRS 610, and NAC 610  Required Provisions
Appendix A p. 2	2) Term: A term of apprenticeship of not less than 2,000 hours of work experience, consistent with training requirements as established by practice in the trade. NRS 610.144 3 (b) Type of Occupation: The term of apprenticeship, which for an individual
	apprentice may be measured either through the completion of the industry standard for on-the-job learning (time-based approach), the attainment of competency (competency-based approach), or a blend of the time-based and competency-based approaches (hybrid approach). 29 CFR 29.5 (b)
Appendix A p. 4-10	3) Work Processes: An outline of the processes in which the apprentice will receive supervised experience and training on the job, and the allocation of the approximate time to be spent in each major process. NRS 610.144 3 (c)
Appendix A p. 12-15	4) Related Instruction: Provisions for organized, related and supplemental instruction in technical subjects (and the costs thereof) related to the trade with a minimum of 144 hours for each year of apprenticeship, given in a classroom or through trade, industrial or correspondence courses of equivalent value or other forms of study approved by the State Apprenticeship Council. NRS 610.1443 (d); NAC 610.433
Appendix A p. 2	5) Wages: A progressively increasing, reasonable and profitable schedule of wages to be paid to the apprentice consistent with the skills acquired, not less than that allowed by federal or state law or regulations or by a collective bargaining agreement. Employers shall pay a beginning wage for apprentices which is at least 35 percent of the rate for journeymen in the same trade, or Minimum and Reasonable and profitable wage for apprentice in construction industry. NRS 610.144 3 (e); NAC 610.480, NAC 610.485
Appendix A p. 2	6) Periodic Review and Evaluation: Provisions for a periodic review and evaluation of the apprentice's progress in performance on the job and related instruction and the maintenance of appropriate records of such progress. NRS 610.144 3 (f)
Appendix A p. 2	7) Ratio: A numeric ratio of apprentices to journeymen consistent with proper supervision, training, safety, continuity of employment and applicable provisions in collective bargaining agreements, in language that is specific and clear as to its application in terms of job sites, workforces, departments or plants. NRS 610.144 3 (g)
Q	ALL DOCUMENTS HAVE BEEN CHECKED FOR SPELLING, FORMATTING, GRAMMAR, (INCLUDING TABLE OF CONTENTS), ETC.

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# Appendix A

# WORK PROCESS SCHEDULE AND RELATED INSTRUCTION OUTLINE

Sierra Pacific Power (d/b/a NV Energy)
Mechanic, Utility Fleet

O\*NET-SOC CODE: 49-3031.00 RAPIDS CODE: 0124CB

APPROVED BY
OFFICE OF WORKFORCE INNOVATION AND THE NEVADA STATE APPRENTICESHIP COUNCIL

Richard J. Williams, Nevada State Apprenticeship Director

REGISTRATION DATE: \_\_\_\_\_\_

REGISTRATION NUMBER:

DEVELOPED IN COOPERATION WITH THE
US DEPARTMENT OF LABOR, THE OFFICE OF WORKFORCE INNOVATION FOR THE NEW
NEVADA, AND THE NEVADA STATE APPRENTICESHIP COUNCIL



# Appendix A

#### **WORK PROCESS SCHEDULE**

Mechanic, Utility Fleet
O\*NET-SOC CODE: 49-3031.00 RAPIDS CODE: 0124CB

This schedule is attached to and a part of these Standards for the above identified occupation.

1.	TYPE OF OCCUPATION
	☐ Time-based ☐ Competency-based ☐ Hybrid
2.	TERM OF APPRENTICESHIP
	The term of the occupation shall be defined by the attainment of all competencies of the position, which would be expected to occur within approximately <b>2,000</b> hours of OJL, supplemented by the minimum of <b>144</b> hours of related instruction per year of the apprenticeship.
3.	RATIO OF APPRENTICES TO JOURNEYWORKERS
	The apprentice to journeyworker/fully-competent worker ratio is: 1 apprentice(s) to 1 journeyworker/fully-competent worker(s).
4.	APPRENTICE WAGE SCHEDULE
	An apprentice minimum starting wage will be at least \$33.33 per hour. Apprentices shall be paid a progressively increasing schedule of wages based on either a percentage or a dollar amount of the current hourly journeyworker/fully-competent worker wage. A journeyworker/fully-competent worker minimum wage will be at least \$39.41. Wages will be based on regional ranges.

HOURLY APPRENTICE WAGES BY PE	RIOD (Exc	luding Benefits)	Top Line Dol	lar Amounts Bott
Occupation	1st Start	2 <sup>ND</sup> 6 months	3RD 1 Year	4TH 18 Months
Apprentice, Mechanic-Utility Fleet	\$33.33	\$34.10	\$35.07	\$36.57

Periodic review and evaluation of the apprentice's on-the-job learning and related technical instruction will be conducted in alignment with the wage schedule established.



5. WORK PROCESS SCHEDULE (See attached Work Process Schedule)

The sponsor may modify the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

6. RELATED INSTRUCTION OUTLINE (See attached Related Instruction Outline)

The sponsor may modify the related instruction to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.



# Appendix A

# WORK PROCESS SCHEDULE Mechanic, Utility Fleet

O\*NET-SOC CODE: 49-3031.00 RAPIDS CODE: 0124CB

The term of the occupation shall be defined by the attainment of all competencies, both technical and behavioral, of the position, which would be expected and approximated to occur within 2,000 hours of OJL, supplemented by a minimum of 144 hours of related instruction per year of apprenticeship.

# <u>Apprenticeship Competencies - Technical</u>

Compe	tencies	Core or Optional	Supervisor /Journeyman Initials	Date	
A.	Follows safe procedures	Core			
B.	Correctly applies hand tools, power tools, and fasteners	Core			
C.	Demonstrates basic rigging and hoisting ability	Core			
D,	Demonstrates ability to apply basic industrial mathematics	Core			
E.	Demonstrates basic mechanical ability	Core			
F.	Demonstrates basic hydraulic and pneumatic ability	Core			
G.	Demonstrates basic electrical and electronic ability	Core			
H.	Demonstrates basic vehicle towing	Core			
OB F	UNCTION 2: Maintains and repairs low voltage electrical	and electroni	c systems		
Compet		Core or Optional	Supervisor /Journeyman Initials	Date	
A.	Follows safe procedures	Core			
B.	Performs general electrical/electronic diagnosis	Core			
C.	Performs battery diagnosis and repair	Core			
D	Performs charging system diagnosis and repair	Core			
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## Sierra Pacific Power (d/b/a NV Energy) 2019 IJ Standards of Apprenticeship

	The state of the s		and the second second second	the same of the same of
. F.	Performs gauge and warning device diagnosis and repair	Core		
G.	Diagnoses and repairs related electrical/electronic systems	Core .		
H.	Maintains, diagnoses, and repairs data communications systems	Core		
I.	Maintains, diagnoses, and repairs multiplex systems	Core		
J.	Maintains, diagnoses, and repairs equipment associated with vehicle electronic systems in accordance with factory guidelines	Optional		
JOB FU	UNCTION 3: Maintains and repairs brake and air systems			
Compet	enoies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Maintains, diagnoses, and repairs systems	Core		
Ç,	Maintains, diagnoses, and repairs mechanical/foundation disc and drum brakes	Core		
D,	Maintains, diagnoses, and repairs parking brakes	Core		
E.	Maintains, diagnoses, and repairs wheel bearings	Core	1	
JOB F	UNCTION 4: Maintains, diagnoses, and repairs engine sys	tems		
Compe	tencies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Maintains, diagnoses, and repairs internal combustion (IC) engines (note: applies generally to diesel, CNG and gasoline engines – see unique competencies below for each propulsion type)	Core		
C.	Maintains, diagnoses, and repairs items specific to diesel engines	Core		
D.	Maintains, diagnoses, and repairs items specific to gasoline engines	Optional		
E.	Maintains, diagnoses, and repairs items specific to CNG engines and related systems	Optional		
F.	Maintains, diagnoses, and repairs items specific to hybrid propulsion systems	Optional		
G.	Maintains, diagnoses, and repairs items specific to electric propulsion systems	Optional		
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## Sierra Pacific Power (d/b/a NV Energy) 2019 IJ Standards of Apprenticeship

Н.	Maintains, diagnoses, and repairs items specific to fuel cell propulsion systems	Optional		
I.	Overhaul of engine	Optional		
JOB FU	UNCTION 5: Maintains, diagnoses, and repairs automatic	transmissions	s and drivetrains	
Compet	encies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Maintains, diagnoses, and repairs automatic transmissions	Core		
C,	Maintains, diagnoses, and repairs drive shafts and universal joints	Core		
D.	Maintains, diagnoses, and repairs drive axles	Core		
E.	Overhaul of transmission	Optional		
JOB FL	INCTION 6: Maintains, diagnoses, and repairs steering an	nd suspension	systems	
Compet	encies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Maintains, diagnoses, and repairs steering systems	Core		
C.	Maintains, diagnoses, and repairs independent front suspensions	Core		
D,	Maintains, diagnoses, and repairs straight/I-beam axles	Core		
E.	Maintains, diagnoses, and repairs rear suspensions	Core		
F.	Diagnoses, adjusts, and repairs wheel alignment	Core		
G.	Maintains, diagnoses, and repairs wheels and tires	Core ·		
OB FU	NCTION 7: Maintains, diagnoses, and repairs heating, ve	entilation and	I air conditioning (I	HVAC)
Compete	oncies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Performs basic HVAC system verifications and testing	Core		
	Maintains, diagnoses, and repairs a/c system and related components	Core		
	Maintains, diagnoses, and repairs heating and engine cooling systems	Core		



## Sierra Pacific Power (d/b/a NV Energy) 2019 IJ Standards of Apprenticeship

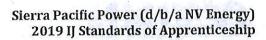
	No. 1 1 TRACE CONT.	G		Total Control
Ε.	Maintains, diagnoses, and repairs HVAC operating systems and related controls	Core		
OB FU	JNCTION 8: Maintains, diagnoses, and repairs body and c	hassis equipn	nent and systems	
Compet	encies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Maintains, diagnoses, and repairs operator and passenger seating	Core		
C.	Maintains, diagnoses, and repairs stanchions, grab rails and modesty panels	Core		
D.	Maintains, diagnoses, and repairs windows	Core	No average	
E.	Maintains, diagnoses, and repairs door systems	Core		
F.	Maintains, diagnoses, and repairs flooring, paneling and roof hatches	Core		
G.	Inspects and repairs frame/chassis members	Core		
OB F	UNCTION 9: Conducts preventive maintenance inspection	S		
Compe	tencies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Core		
В.	Inspects engine systems	Core		
C.	Inspects body interior and exterior	Core		
D,	Inspects electrical/electronic systems	Core		
E.	Inspects frame and chassis	Core		
F.	Conducts road test	Core		
JOB FU	JNCTION 10: Maintains, diagnoses, and repairs aRIculated	l systems		
Compe	tencies	Core or Optional	Supervisor /Journeyman Initials	Date
A.	Follows safe procedures	Optional		
	2000 1 1 1 1 1 1	Optional		
В.	Maintains, diagnoses, and repairs mechanical components of the aRIculation joint	Optional	1961	



D.	Maintains, diagnoses, and repairs the electronic control system	Optional	seath o daire d charles a contra
E.	Maintains, diagnoses, and repairs aRIculation bellows	Optional	

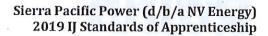
# Specialization

Preventative Maintenance	PM	
Department of Transportation	DOT	
Troubleshoot & Repair	TR	
Remove & Replace	RR	
Rebuild	RB	
Disassemble	D	
Inspect	ment was a first somewhat were	
Repair	R	
Adjust	A	
Load & Unload	LL	
Preventative N	laintenance	
Light Duty Gas Engine & Chassis	PM	
ight Duty Diesel Engine & Chassis	PM	
Heavy Duty Diesel & Chassis	PM	
Trailers	PM	
DOT Trucks	DOT	
DOT Trailers	DOT	
	Percentage of Time	40%
Diesel Engine Diag	gnosis & Repair	
Diesel Engine	RR	
Fuel Systems	TR	
Electrical Systems	TR	
Emission Systems	TR	
Intake/Exhaust Systems/Turbo Chargers	RR	
Cooling Systems	TR	
	Percentage of Time	10%
Gas Engine Diagr	nosis & Repair	
Gas Engine	RR	
Fuel System	TR	
Electrical System	TR	
Emission System	TR	-





Intake/ Exhaust System	TR	print of the
Cooling System	TR	
	Percentage of Time	5%
	Drivetrain	
Automatic Transmissions	TR/RR	
Manual Transmission & Clutch	I/A/RR	10.7
Drivelines	RR	gari
Transfer Cases	TR/RR	
Axles	TR/RR	
Tires	I/RR	
71.47	Percentage of Time	5%
HSAPET!	Chassis	
Chassis Electrical	TR	r Égy
Suspension	A/TR	
Steering System	TR Transfer to the transfer to	
Air Systems	TR	
Air Brakes	I/A/RR	
Hydraulic Brakes	I/RR	
	Percentage of Time	5%
Mounte	d Equipment & Trailers	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Service Bodies	I/TR	
Water Tanks	Mary 200 Country WITR	
Generators/ Air Compressors/ Tool	PM/TR	
Circuits		
Reel/ Pole Trailers	MTR ARABANA	
Puller/ Tensioner	I/TR	
Lighting/ Safety Devices/ Hitches	TR	
<b>福州</b>	Percentage of Time	5%
	struction Equipment	
Backhoe/ Loader/ Dozer/ Skid Steer/	PM	
Grader	TD:	
Controls	TR	
Hydraulics	TR/RR	
Implements	TR/RR	ASSESSED OF STREET
Electrical	TR	14 美型地
Trailering / Transporting	LL/I/A	E0/
Participants of the second	Percentage of Time	5%
PORT ATTENDED TO	Aerial Devices	
Bucket Truck/ Manlift/ Scissorlift	Entire production the configuration of the residence of t	
Controls		
Hydraulics	TR/RR	





Electrical	TR	-
Booms & Buckets	I/TR/D/R	
Outriggers	TR	
Guanggo, o	Percentage of Time	5%
Cranes & L		070
Digger Derrick/ Backyard Digger/	PM	
Mobile Crane	TOTAL DESIGNATION	
Controls	TR	
Hydraulics	TR/RR	
Electrical	TR	
Booms/ Outriggers	I/TR/D/R	
Winch/ Winch Line/ Hook	I/TR/RR	
Z 1823.7	CONTRACTOR (AND AND AND AND AND AND AND AND AND AND	5%
Snowe	cat	
Piston bully/ Camoplast/ Tucker	PM	
Controls	TR	<b>8</b> 5 (5)
Electrical	TR	
Hydraulic/ Drivetrain	I/PM/TR	
Tracks	I/D/R	
Trailering / Transporting	LL/I/A	
	Percentage of Time	5%
Off Highway	Vehicles	
ATV/ UTV/ Golf Cart	PM	
Engine	TR	
Drivetrain/ Belt	TR/RR	
Suspension	TR	
Steering	TR	
Wheels & Tires	RR	
amsunst.	Percentage of Time	5%
Forklift & PIT		
elehandlers/ Forklifts/ Order Pickers	I/PM	
Masts/ Booms/ Forks	TR	
Hydraulics/ Controls	TR	
Engine/ Drivetrain	TR	
Wheels & Tires	RR	
Electrical & Lighting	TR	
	Percentage of Time	5%
		100%

See LOA 19-14 with NV Energy and IBEW Local 1245 for program approval and oversight from the NVE/Local 1245 Joint Apprenticeship Training Committee.



The above on-the-job-learning (OJL) work process competencies are intended as a guide. It need not be followed in any particular sequence, and it is understood that some adjustments may be necessary in the hours allotted for different work experience. In all cases, the apprentice is to receive sufficient experience to make them fully competent and use good workmanship in all work processes, which are a part of the industry. In addition, the apprentice shall be fully instructed in safety and OSHA requirements.

#### Apprenticeship Competencies - Behavioral

In addition to mastering all of the essential technical competencies, an apprentice must consistently demonstrate at an acceptable level the following behavioral competencies in order to complete the apprenticeship.

Item#	Behavioral Competencies
1.	Participation in team discussions/meetings
2.	Focus in team discussions/meetings
3.	Focus during independent work
4.	Openness to new ideas and change
5.	Ability to deal with ambiguity by exploring, asking questions, etc.
6.	Knows when to ask for help
7.	Able to demonstrate effective group presentation skills
8.	Able to demonstrate effective one-on-one communication skills
9.	Maintains an acceptable attendance record
10.	Reports to work on time
11.	Completes assigned tasks on time
12.	Uses appropriate language
13.	Demonstrates respect for patients, co-workers and supervisors
14.	Demonstrates trust, honesty and integrity
15.	Requests and performs work assignments without prompting
16.	Appropriately cares for personal dress, grooming and hygiene
17.	Maintains a positive attitude
18.	Cooperates with and assists co-workers
19.	Follows instructions/directions
20.	Able to work under supervision
21.	Able to accept constructive feedback and criticism
22.	Able to follow safety rules
23.	Able to take care of equipment and work place
24.	Able to keep work area neat and clean
25.	Able to meet supervisor's work standards
26.	Able to not let personal life interfere with work
27.	Adheres to work policies/rules/regulations



#### RELATED INSTRUCTION OUTLINE

Mechanic, Utility Fleet

O\*NET-SOC CODE: 49-3031.00 RAPIDS CODE: 0124CB

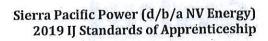
The related instruction has been developed in cooperation with employer-partners as part of the apprenticeship. The following is a set of courses to be delivered by subject matter experts.

Related Technical Instruction (RTI) - This instruction shall include, but not be limited to, at least 144 hours per year for each year of the apprenticeship. The related theoretical education listed below is tightly integrated with real work product. The curriculum is defined as a variety of classes, around which the exams and projects are based. By defining the RTI this way, all competencies required of the students are met, through project work.

#### TMCC Required Related Instruction

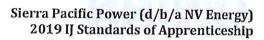
TMCC Transportation Technologies, AAS/ Diesel Technician

	1st Semester	Company September 10 to	Units
	ENG 107	Technical Communications I	3
	DT 101	Basic Diesel Engines	4
	DT 201	Diesel Brakes and Pneumatics	3
	DT 211	Light Duty Performance	2
	DT 235	Steering and Suspension	2
	OSH 222	General Industry Safety	1
		Semester Total	15 225 hrs
	2nd Semester	Varia appropriate la suma de la companion de l	
U.S. and Nevada			3
10	AUTO 111	Automotive Electricity	4
E	DT 130	Heavy Duty Hydraulics	2
	DT 210	Advanced Diesel Engines	4
	DT 250	Preventive Maintenance	2
		Semester Total	15 225 hrs
	3rd Semester	and the state of t	220 1113
	DT 106	Heavy Duty Transmissions and Power Trains	5
	DT 107	Heavy Duty Drive Trains	5
	DT 217	Electronic Fuel Injection II	3
	Science 3	- The morning was a step of any	3
		Semester Total	16 240 hrs
	4th Semester		
Co	mmunications 3		3
	DT 110	Heavy Duty Electrical Systems	3
	Social Science		3



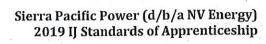


	Elective 3	Semester Total	5 14
		Fotal Degree Credit Units Total Clock Hours	210 hrs 60 900
VE Related T rst 6 onths	Technical Instruction	And the second	Hours
Onthis .	Shop Safety		
	General Safety	well report consults.	18
		Total Hours	18
	Fleet Specific Training		ne et
	Fleet Policies Procedures		8
	Jumpstarting	Situati ne diti	.1
	Working Around Mobile Equipment	Teath, aspended to transit	1
2.7	The state of the s	Total Hours	10
	Shop Tools		
	Steam Cleaner	A STATE OF THE PROPERTY OF THE	. 1
	Parts Washer	Elizabeth Control of the Control	1
	Drill Press		1
	Bench Grinder		1
	CONTRACTOR STATE S	Total Hours	4
	General Driving		
S. S. Parker	Alert Driver	Promocinal and analysis in	3
	Complete Driver		, 2
(	Trailer Towing	Name of Santofal 2	. 1
	Trailer Towning	Total Hours	6
	Commercial Driver's Training		
	CDL Rules and Regulation		2
	ODE I tales and I togulation	Total Hours	2
	<b>Utility Equipment Operators Trainin</b>		EL PINA
9	Forklift & PIT Truck		2
	Bucket Truck	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2
. W	Digger Derrick		2
6196	Digger Derrick	Total Hours	6
18-0	Off Highway Vokiels Operators Trail	the Market and the Art and the Control of the Contr	HALAKTER
	Off Highway Vehicle Operators Trai		. 1
	ATV		1
	UTV		1
	Golf Cart	Total Hours	3
	The state of the s	Total Hours	J
	Mechanic Instruction		





	Utility Mechanic Field Service Training	20
	Total Hours	
	Hours of Instruction Months 0-6	69
6-12 Months	tack? Inte?	
0-12 WOITHS	Chan Cafata	Hours
	Shop Safety	
	General Safety	18
	Total Hours	18
	Fleet Specific Training	
	Modern Turbo Diesel Engines	1
	Auger Stow	2
	Installing Snow Chains	1
	Total Hours	4
	Shop Tools	
	Overhead Cranes	1
	Vehicle Hoists	1
	Total Hours	2
	General Driving	_
	Alert Driver	3
	Total Hours	
	Commercial Driver's Training	3
	Load Securement Standards	
•0		1
	Total Hours	1
	Utility Equipment Operators Training	
(	Man & Scissor Lift	2
	Backyard Digger	1
	Total Hours	3
	Off Highway Vehicle Operators Training	
	Snowcat	4
	Total Hours	4
	Mechanic Instruction	
	Bucket Truck Rebuild	20
	Digger Derrick Rebuild	20
	Total Hours	40
	Hours of Instruction Months 6-12	
		75
	Total Instruction Hours Year 1	144
0.40.86		
2-18 Months		Hours
	Shop Safety	8
	General Safety	18





	Total Hours	18
	General Driving	
	Alert Driver / NVE Driver Awareness Training	3
	Total Hours	3
	Commercial Driver's Training	
	Class "A" Pretrip	20
*	Class "A" Skills	20
	Class "A" Driving	40
	Total Hours	80
	Hours of Instruction Months 12-18	101
	En JANY C Book 15: 302 pages de Santa de Carte de La Carte de La Carte de C	
18-24 Months		Hours
	Shop Safety	
	General Safety	18
	Total Hours	18
	General Driving	
	Alert Driver	3
	Total Hours	3
	Mechanic Instruction	ri no o cressello con
	Snowcat Summer Rebuild	30
	Total Hours	30
	Hours of Instruction Months 18-24	51
	Total Instruction Hours Year 2	152
	Total Program Related Technical Instruction	1,196
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Sierra Pacific Power (d/b/a NV Energy) Mechanic, Utility Fleet - 2 Year Program

Work Process Competencies	Demonstrated Tasks Performed	6-month Rating	12-month Rating	18-month Rating	24-month Rating*
Demonstrates mastery of fundamental skills	A. Follows safe procedures  B. Correctly applies had tools, power tools, and fasteners C. Demonstrates basic rigging and hoisting ability D. Demonstrates ability to apply basic industrial mathematics E. Demonstrates basic mechanical ability F. Demonstrates basic hydraulic and pneumatic ability G. Demonstrates basic hydraulic and electronic ability	(0/.5-1)			
Maintains and repairs low voltage electrical and electronic systems	H. Demonstrates basic venicle towing A. Follows safe procedures B. Performs general electrical/electronic diagnosis C. Performs battery diagnosis and repair D. Performs battery diagnosis and repair E. Performs lighting systems diagnosis and repair E. Performs lighting systems diagnosis and repair E. Performs gauge and warning device diagnosis and repair F. Performs and repairs related electrical/electronic systems H. Maintains, diagnoses, and repairs anultiplex systems I. Maintains, diagnoses, and repairs multiplex systems J. Maintains, diagnoses, and repairs equipment associated with vehicle electronic systems in accordance with factory guidelines			. 1	
Maintains and repairs brake and air systems	A. Follows safe procedures  B. Maintzins, diagnoses, and repairs systems  C. Maintzins, diagnoses, and repairs mechanical/foundation disc and drum brakes  D. Maintzins, diagnoses, and repairs parking brakes  E. Maintzins, diagnoses, and repairs wheel bearings	£			N.
Maintains, diagnoses, and repairs engine systems	A. Follows safe procedures  B. Maintains, diagnoses, and repairs internal combustion (IC) engines (note: applies generally to diesel, CNG and gasoline engines – see unique competencies below for each propulsion type)  C. Maintains, diagnoses, and repairs items specific to diesel engines  D. Maintains, diagnoses, and repairs items specific to Gosoline engines  E. Maintains, diagnoses, and repairs items specific to CNG engines and related systems  E. Maintains, diagnoses, and repairs items specific to hybrid propulsion systems  G. Maintains, diagnoses, and repairs items specific to electric propulsion systems  H. Maintains, diagnoses, and repairs items specific to fuel cell propulsion systems  I. Overhaul of engine				
Maintains, diagnoses, and repairs automatic transmissions and drivetrains  Maintains, diagnoses, and repairs steering and suspension systems	A. Follows safe procedures B. Maintains, diagnoses, and repairs automatic transmissions C. Maintains, diagnoses, and repairs drive shafts and universal joints D. Maintains, diagnoses, and repairs drive axles E. Overhaul of transmission A. Follows safe procedures B. Maintains, diagnoses, and repairs steering systems C. Maintains, diagnoses, and repairs independent front suspensions D. Maintains, diagnoses, and repairs independent Event Maintains, diagnoses, and repairs rear suspensions E. Maintains, diagnoses, and repairs rear suspensions F. Diagnoses, adjusts, and repairs wheel alignment G. Maintains, diagnoses, and repairs wheels and tires				

Maintains, diagnoses, and repairs heating, ventilation and air conditioning (HVAC) systems	A. Follows safe procedures  B. Performs basic HVAC system verifications and testing C. Maintains, diagnoses, and repairs a/c system and related components D. Maintains, diagnoses, and repairs heating and engine cooling systems E. Maintains, diagnoses, and repairs HVAC operating systems and related controls	N/	e) 9.	
Maintains, diagnoses, and repairs body and chassis equipment and systems	A. Follows safe procedures  B. Maintains, diagnoses, and repairs operator and passenger seating  C. Maintains, diagnoses, and repairs stanchions, grab rails and modesty panels  D. Maintains, diagnoses, and repairs windows  E. Maintains, diagnoses, and repairs door systems  F. Maintains, diagnoses, and repairs flooring, paneling and roof hatches  G. Inspects and repairs flooring, paneling and roof hatches			
Conducts preventive maintenance inspections	A. Follows safe procedures B. Inspects engine systems C. Inspects body interior and exterior D. Inspects electrical/electronic systems E. Inspects frame and chassis F. Conducts road test			
Maintains, diagnoses, and repairs aRIculated systems	A. Follows safe procedures  B. Maintains, diagnoses, and repairs mechanical components of the aRIculation joint C. Maintains, diagnoses, and repairs hydraulic components of the aRIculation joint D. Maintains, diagnoses, and repairs the electronic control system E. Maintains, diagnoses, and repairs aRIculation bellows			

\* Full-competency requires score of 3.0 or higher on each work process

\*\* Denotes approximate percentage of time in apprenticeship .

Score Obtained (Average)

Increase Paid Score Required 3.0 3.0

3.0

3.0

Rating System	Description	Pointe
Exceeds All Expectations	Consistently exceeds performance standard established for the time in position. Achieves results above and beyond what is required. Extends themselves in their roles to exceed personally and as a team to achieve exceptional results.	ທ
Meets & Exceeds Some Expectations	Employee not only meets all expectations in a fully satisfactory way but exceeds some of the objectives.	4
Meets Expectations	Consistently meets the performance standards established for time in position. Handles routine tasks & some unexpected situation with the usual amount of supervision. Can continue to develop with coaching, advanced training or more experience	м
Meets Some Expectations	Employee occasionally meets some of the objectives related to this goal but does not meet others in a fully satisfactory way. This performance level generally indicates the need for additional coaching, training or other plan for performance improvements.	. 2
Does Not Meet / Meets Some Expectations	Does not consistently meet performance standards established for time in position. Requires basic training, coaching or experience to improve performance and become consistent.  Additional follow up will be necessary.	
Does Not Meet Expectations	Clearly and repeatedly does not meet the performance standards established for time in position. Additional follow up and specific suggestions for improvement mandatory.	0