

Issued: January 29, 2020

Program: Powerline Technician

To: ITA Training Providers
Articulation Chair
System Liaison Person
School Districts

Subject: **Powerline Technician Program Outline and Program Profile Update**

OPSN No.: **OPSN 2020 001**

Effective Date: September 1, 2020

Summary of Change: Please be advised that changes have been made to the Powerline Technician program as a result of the Pan-Canadian Harmonization Initiative and will be implemented effective September 1, 2020.

Changes are as follows:

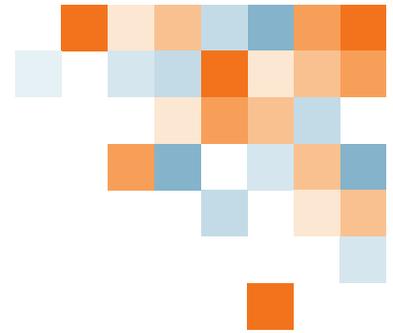
- Program name changed (from Power Line Technician to Powerline Technician)
- Increase in work-based training hours (from 6,350 to 6,720)
- Change in number of technical training levels (from 3 to 4)
- Changes in sequencing of training content

The Harmonized Program Outline and Program Profile have been posted to the Industry Training Authority (ITA) website. For details of changes to the Program Outline, please see ***Powerline Technician Program Outline Review Details*** (below).

Rationale: At the request of industry, the Canadian Council of Directors of Apprenticeship's (CCDA) Harmonization Initiative was launched in Fall 2013 and endorsed by the Forum of Labour Market Ministers (FLMM) in 2014. The goal of Harmonization is to *substantively align* apprenticeship systems across Canada by making apprenticeship training requirements more consistent in Red Seal trades.

In consultation with stakeholders, the CCDA identified four Harmonization priorities: trade name, total training hours (in-school plus on-the-job), number of training levels, and the sequencing of training content.

Powerline Technician is one of five trades identified for the fifth phase of Harmonization. After a series of consultations and pan-Canadian webinars, the finalized priorities of the Harmonized Powerline Technician program were as follows:



Powerline Technician	Changing in BC?	What will it be?
Trade name	Yes	Powerline Technician (from Power Line Technician)
Total hours	Yes	7200 total hrs. (from 6830) (480 Technical Training + 6720 Work Based = 7200 Total)
Number of training levels	Yes	4 (from 3)
Training sequence	Yes	Some changes

Details: Employment and Social Development Canada (ESDC) developed a new Red Seal Occupational Standard (RSOS) in 2018, prompting a review of the BC Program Outline to align the two standards.

A Powerline Technician Program Review was conducted in June 2019 to align BC's Powerline Technician Program Outline to the harmonized sequencing and 2018 RSOS. The review process revised content to meet the current industry standard.

Attachments: *Powerline Technician Program Outline Review Details (below)*
This attachment provides details of the revisions made to the Powerline Technician Program Outline during the review process.

For more information contact: Industry Training Authority
Program Standards Department
email: programstandards@itabc.ca

cc: All Staff



Powerline Technician Program Outline Competency Migration

Summary - Competency Migration

This chart shows the finalized competency distribution for the Harmonized Powerline Technician program. It summarizes the major changes to the competencies, specifically the level they are taught in and any competencies that were added or removed.

Key
 Blue Text = Content moved to lower level = HL←CL (creates an gap)
 Purple Text = Content moved to higher level = CL→HL (creates an overlap)
 Green Text = New content added
 Red Text = Removed from Program Outline
 Black Text = No change to level
 CL = Current Level
 HL = Harmonized level

POWERLINE TECHNICIAN HARMONIZED LEVEL 1		POWERLINE TECHNICIAN HARMONIZED LEVEL 2		POWERLINE TECHNICIAN HARMONIZED LEVEL 3	POWERLINE TECHNICIAN HARMONIZED LEVEL 4
Line A	SAFETY AND SAFE WORK PRACTICES				
	A1 Apply safety regulations				
	A2 Use trade specific personal protective equipment (PPE)				
	A3 Apply limits of approach				
	A4 Apply lock-out and tag-out procedures				
	A5 Apply grounding and equipotential bonding principles				
	A6 Perform rescue				
Line B	CLIMBING				
	B1 Describe care and use of climbing equipment				
	B2 Climb structures				



Powerline Technician Program Outline Competency Migration

POWERLINE TECHNICIAN HARMONIZED LEVEL 1		POWERLINE TECHNICIAN HARMONIZED LEVEL 2		POWERLINE TECHNICIAN HARMONIZED LEVEL 3	POWERLINE TECHNICIAN HARMONIZED LEVEL 4
	B3 Use elevated platforms and ladders				
	B4 Test for pole (structure) stability				
Line C	POLICIES AND REGULATIONS				
	C1 Identify environmental hazards				
	C2 Apply industry safety regulations				
Line D	TOOLS AND INSTRUMENTS	Line D	TOOLS AND INSTRUMENTS		
	D1 Use hand tools				
	D2 Use power tools				
	D3 Use live line tools				
	D4 Use test instruments		D4 Use test instruments		
Line E	ELECTRICAL THEORY	Line E	ELECTRICAL THEORY	Line E	ELECTRICAL THEORY
	E1 Apply electrical fundamentals		E1 Apply electrical fundamentals		
			E2 Describe operation of motors and generators		
	E3 Explain transformation and install transformers		E3 Explain transformation and install transformers		
	E4 Install self-contained metering			E5 Install transformer metering	
					E6 Describe system operation and protection
					E7 Perform system switching



Powerline Technician Program Outline Competency Migration

POWERLINE TECHNICIAN HARMONIZED LEVEL 1		POWERLINE TECHNICIAN HARMONIZED LEVEL 2		POWERLINE TECHNICIAN HARMONIZED LEVEL 3		POWERLINE TECHNICIAN HARMONIZED LEVEL 4	
							E8 Operate voltage regulators and capacitors
Line F	EQUIPMENT	Line F	EQUIPMENT	Line F	EQUIPMENT	Line F	EQUIPMENT
	F1 Identify mobile line equipment						
	F2 Use hydraulically-equipped vehicles						
					F3 Use stringing equipment		F3 Use stringing equipment
Line G	RIGGING	Line G	RIGGING	Line G	RIGGING	Line G	RIGGING
	G1 Explain rigging, hoisting and lifting equipment						
	G2 Use lifting, rigging and hoisting equipment						
			G3 Use rigging tools and equipment in construction and maintenance				
			G4 Apply rigging components and equipment for live line distribution				G4 Apply rigging components and equipment for live line distribution – into H8
					G5 Use rigging tools and equipment in transmission, construction and maintenance		
					G6 Perform live line transmission rigging		
Line H	OVERHEAD DISTRIBUTION (OD)	Line H	OVERHEAD DISTRIBUTION (OD)			Line H	OVERHEAD DISTRIBUTION (OD)



Powerline Technician Program Outline Competency Migration

POWERLINE TECHNICIAN HARMONIZED LEVEL 1		POWERLINE TECHNICIAN HARMONIZED LEVEL 2		POWERLINE TECHNICIAN HARMONIZED LEVEL 3		POWERLINE TECHNICIAN HARMONIZED LEVEL 4	
	H1 Describe overhead distribution materials						
	H2 Describe overhead distribution systems						
	H3 Construct distribution lines		H3 Construct distribution lines				
	H4 Demonstrate safe work practices for live line work						H4 Demonstrate safe work practices for live line work – into H8
new	H5 Maintain single phase distribution lines						
			H6 Maintain three phase distribution lines				H6 Maintain three phase distribution lines
			H7 Operate overhead distribution (OD) electrical apparatus				H7 Operate overhead distribution (OD) electrical apparatus
							H8 Troubleshoot overhead distribution system components
Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)
	I1 Use underground distribution (UD) equipment and materials		I1 Use underground distribution (UD) equipment and materials				
			I2 Determine underground distribution systems				
			I3 Maintain underground distribution systems				
					I4 Operate underground distribution electrical apparatus		



Powerline Technician Program Outline Competency Migration

POWERLINE TECHNICIAN HARMONIZED LEVEL 1		POWERLINE TECHNICIAN HARMONIZED LEVEL 2		POWERLINE TECHNICIAN HARMONIZED LEVEL 3		POWERLINE TECHNICIAN HARMONIZED LEVEL 4	
							15 Troubleshoot underground distribution systems
				Line J	TRANSMISSION	Line J	TRANSMISSION
					J1 Describe transmission materials		
					J2 Construct transmission lines		
					J3 Maintain transmission lines		J3 Maintain transmission lines
					J4 Operate transmission electrical apparatus		
							J5 Troubleshoot overhead transmission system components
Line K	COMMUNICATION	Line K	COMMUNICATION	Line K	COMMUNICATION	Line K	COMMUNICATION
	K1 Plan tailboard meetings		K1 Plan tailboard meetings		K1 Plan tailboard meetings		
	K2 Communicate using hand signals						
	K3 Communicate using electronic devices and systems						
			K4 Apply communication protocols and requirements				
new	K5 Apply communication techniques						
							K6 Apply mentoring techniques

Powerline Technician Program Outline Competency Migration

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 HL = Harmonized level

Details of Changes

The following chart provides a side by side comparison of current and harmonized levels with notes on major changes.

	Current Level 1		Harmonized Level 1	Description of Changes
Line A	SAFETY AND SAFE WORK PRACTICES	Line A	SAFETY AND SAFE WORK PRACTICES	
A1	Identify safety regulations	A1	Apply safety regulations	Competency name change
A2	Identify trade specific personal protective equipment (PPE)	A1	Use trade specific personal protective equipment (PPE)	Competency name change
A3	Recognize and observe limits of approach	A3	Apply limits of approach	Competency name change
A4 A5	Describe lock out procedures Demonstrate lock out procedures	A4	Apply lock-out and tag-out procedures	CL A4 +CL A5 combined into HL A4. Competency name change
A6 A7	Describe correct grounding and equi-potential procedures Demonstrate correct grounding and equi-potential procedures	A5	Apply grounding and equi-potential bonding principles	CL A6 +CL A7 combined into HL A5. Competency name change
A8 A9	Describe rescue procedures Perform rescue procedures	A6	Perform rescue	CL A8 +CL A9 combined into HL A6. Competency name change
Line B	CLIMBING	Line B	CLIMBING	
B1	Describe the care and use of climbing equipment	B1	Describe care and use of climbing equipment	

Powerline Technician Program Outline Competency Migration

	Current Level 1		Harmonized Level 1	Description of Changes
B2 B3	Demonstrate climbing wood structures Demonstrate safe climbing techniques for steel structures	B2	Climb structures	CL B2 +CL B3 combined into HL B2. Competency name change. Some content to HL B3
B4 B5	Describe working on elevated platforms Demonstrate working on elevated platforms	B3	Use elevated platforms and ladders	CL B4 +CL B5 combined into HL B3. Competency name change.
B6 B7	Describe testing for pole (structure) stability Stabilize and strengthen poles	B4	Test for pole (structure) stability	CL B6 +CL B7 combined into HL B4. Competency name change.
Line C	POLICIES AND REGULATIONS	Line C	POLICIES AND REGULATIONS	
C1	Identify environmental hazards and regulations	C1	Identify environmental hazards	Competency name change
C2	Identify industry regulations	C2	Apply industry safety regulations	Competency name change
Line D	TOOLS AND INSTRUMENTS	Line D	TOOLS AND INSTRUMENTS	
D1 D2	Describe the use and care of hand tools Demonstrate the use and care of hand tools	D1	Use hand tools	CL D1 +CL D2 combined into HL D1. Competency name change.
D3 D4	Describe the use and care of power tools Demonstrate the use and care of power tools	D2	Use power tools	CL D3 +CL D4 combined into HL D2. Competency name change.
D5 D6	Describe the use and care of test instruments Demonstrate the use and care of test instruments	D4	Use test instruments	CL D5 +CL D6 combined into HL D4. Competency name change.
D7	Describe the use and care of live line tools	D3	Use live line tools	Competency name change.
Line E	ELECTRICAL THEORY	Line E	ELECTRICAL THEORY	
E1	Describe electrical fundamentals	E1	Apply electrical fundamentals	Competency name change.
E2	Describe the operation of motors and generators			Moved out of L1, into HL2 E2
E3 E4	Describe transformation Install transformers	E3	Explain transformation and install transformers	CL E3 +CL E4 combined into HL E3. Competency name change.
E5 E6	Describe metering components Read meters	E4	Install self-contained metering	CL E5 +CL E6 combined into HL E4. Competency name change.
Line F	EQUIPMENT	Line F	EQUIPMENT	
F1	Identify types of mobile line equipment	F1	Identify mobile line equipment	
F2	Demonstrate use and care of hydraulically equipped vehicles	F2	Use hydraulically equipped vehicles	Competency name change.
Line G	RIGGING	Line G	RIGGING	
G1	Describe principles of work, force and mechanical advantage	G1	Explain rigging, hoisting and lifting equipment	Competency name change.

Powerline Technician Program Outline Competency Migration

	Current Level 1		Harmonized Level 1	Description of Changes
G2	Describe the use and care of lifting tools and equipment	G2	Use rigging, hoisting and lifting equipment	CL G2 +CL G3 combined into HL G4. Competency name change.
G3	Use lifting tools and equipment			
Line H	OVERHEAD DISTRIBUTION (OD)	Line H	OVERHEAD DISTRIBUTION (OD)	
H1	Describe overhead distribution materials	H1	Describe overhead distribution materials	
H2	Describe how to determine overhead line status	H2	Describe overhead distribution systems	CL H2 +CL H3 combined into HL H2. Competency name change.
H3	Determine line status			
H4	Describe construction of distribution lines	H3	Construct distribution lines	CL H4 +CL H5 combined into HL H3.
H5	Construct distribution lines			
H6	Describe procedures for live line work	H4	Demonstrate safe work practices for live line work	CL H6 +CL H7 combined into HL H4. Competency name change.
H7	Demonstrate use of live line tools			
		H5	Maintain single-phase distribution lines	New to LI through aligning to national sequencing.
Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)	
I1	Describe underground distribution materials	I1	Use underground distribution equipment and materials	CL1 I1, CL1 I2 +CL I3 combined into HL I1. Competency name change.
I2	Describe how to determine UD line status			
I3	Determine UD line status			
Line K	COMMUNICATION	Line K	COMMUNICATION	
K1	Describe the purpose of tailboard meetings	K1	Plan tailboard meetings	CL K1 +CL K2 combined into HL K1. Competency name change.
K2	Participate in tailboard meetings			
K3	Identify and describe the use of hand signals	K2	Communicate using hand signals	CL K3 +CL K4 combined into HL K2. Competency name change.
K4	Communicate using hand signals			
K5	Describe tools and systems for electronic communications	K3	Communicate using electronic devices and systems	CL K5 +CL K6 combined into HL K3. Competency name change.
K6	Communicate using electronic devices and systems			

Powerline Technician Program Outline Competency Migration

	Current Level 1		Harmonized Level 1	Description of Changes
K7	Describe communication with other disciplines and co-workers	K5	Apply communication techniques	New to RSOS and PO. Content from CL1 K7, K8, K9, K10
K8	Communicate with other disciplines and co-workers			
K9	Describe communication with customers			
K10	Communicate with customers			

	Current Level 2		Harmonized Level 2	Description of Changes
Line D	TOOLS AND INSTRUMENTS	Line D	TOOLS AND INSTRUMENTS	
D5	Describe the use and care of test instruments	D4	Use test instruments	CL D5 +CL D6 combined into HL D4. Competency name change.
D6	Demonstrate the use and care of test instruments			
Line E	ELECTRICAL THEORY	Line E	ELECTRICAL THEORY	
E1	Describe electrical fundamentals	E1	Apply electrical fundamentals	Competency name change.
E2	Describe the operation of motors and generators	E2	Describe operation of motors and generators	Some content embedded into L3, Line E
E3	Describe transformation	E3	Explain transformation and install transformers	CL E3 +CL E4 combined into HL E3. Competency name change.
E4	Install transformers			
E7	Describe power factor			Moved into HL 3, E5
Line F	EQUIPMENT	Line F	EQUIPMENT	
F3	Describe the use and care of stringing equipment (distribution)		See HL3	Moved from CL2 into HL 3, as per national sequencing (RSOS)
F4	Demonstrate the use and care of stringing equipment (distribution)			
Line G	RIGGING	Line G	RIGGING	

Powerline Technician Program Outline Competency Migration

	Current Level 2		Harmonized Level 2	Description of Changes
G4 G5	Identify lifting components for live line distribution Use lifting tools and equipment in live line distribution	G4	Apply rigging tools and equipment for live line distribution	CL G4+CL G5 combined into HL G4. Competency name change.
G6 G7	Describe the use of lifting devices in distribution construction and maintenance Use lifting devices in distribution construction and maintenance	G3	Use rigging tools and equipment in construction and maintenance	CL G6 +CL G7 combined into HL G3. Competency name change.
Line H	OVERHEAD DISTRIBUTION (OD)	Line H	OVERHEAD DISTRIBUTION (OD)	
H4 H5	Describe construction of distribution lines Construct distribution lines	H3	Construct distribution lines	CL H4 +CL H5 combined into HL H3.
H8 H9	Describe the installation and operation of OD electrical apparatus Install, operate and maintain OD electrical apparatus	H7	Operate overhead distribution electrical apparatus	CL H8 +CL H9 combined into HL H7. Competency name change.
H10 H11	Describe the maintenance of distribution lines (up to and including 3 phase) Maintain distribution lines	H6	Maintain three-phase distribution lines	CL H10 +CL H11 combined into HL H6. Competency name change.
H12	Locate and identify applicable standards		<i>See HL1</i>	Content moved from CL2→HL1 Apply industry safety regulations
Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)	
I1 I2 I3	Describe underground distribution materials Describe how to determine UD line status Determine UD line status	I1	Use underground distribution equipment and materials	CL I1, CL I2 +CL I3 combined into HL I1. Competency name change.
I4 I5	Describe UD grounding procedures Demonstrate UD grounding procedures	I3	Maintain underground distribution systems	CL I4 + CL I5 combined into HL I3. Competency name change.
I6 I7	Describe the construction of UD lines. Construct UD lines.	I2	Construct underground distribution systems	CL I6 + CL I7 combined into HL I2. Competency name change.
Line K	COMMUNICATION	Line K	COMMUNICATION	
		K1	Plan tailboard meetings	CL1 K1 Describe the purpose of tailboard meetings + CL1 K2 Participate in tailboard meetings, combined into HL2 K1. Competency name change.

Powerline Technician Program Outline Competency Migration

	Current Level 2		Harmonized Level 2	Description of Changes
K8	Communicate with other disciplines and co-workers			CL K8 not in Harmonized, but some content moved to HL K4
		K4	Apply communication protocols and requirements	Some content from CL K8 → HL K4.

	Current Level 3		Harmonized Level 3	Description of Changes
Line E	ELECTRICAL THEORY	Line E	ELECTRICAL THEORY	
E5 E6	Describe metering components Read meters	E5	Install transformer metering	CL E5 +CL E6 combined into HL E5. Competency name change. Some content moved from CL2 E7 <i>Describe power factor</i> into HL3 E5
E8	Describe substation operations, system operations and system protection		See HL4	Moved to HL4, E6 <i>Describe system operation and protection</i> Competency name change
E9	Perform system switching		See HL4	Moved to HL 4, E7 <i>Perform system switching</i>
E10 E11	Describe voltage regulators and capacitors Demonstrate the installation, operation and removal of voltage regulators and capacitors		See HL4	Moved to HL4 E8 <i>Operate voltage regulators and capacitors</i> CL E10+CL E11 combined into HL4 E8 <i>Operate voltage regulators and capacitors</i> Competency name change
Line F	EQUIPMENT	Line F	EQUIPMENT	
F5 F6	Describe the equipment and procedures for stringing transmission lines Demonstrate stringing transmission lines	F3	Use stringing equipment	Some content moved from CL2 F3 + F4 into HL 3, as per national sequencing (RSOS) CL F5+CL F6 combined into HL F3. Competency name change
Line G	RIGGING	Line G	RIGGING	
G8 G9	Identify lifting components for transmission Demonstrate the use of lifting components for transmission	G5	Use rigging tools and equipment in transmission, construction and maintenance	CL G8+CL G9 combined into HL G5. Competency name change.
G10 G11	Describe live line transmission rigging Demonstrate live line transmission rigging	G6	Perform live line transmission rigging	CL G10+CL G11 combined into HL G6. Competency name change.

Powerline Technician Program Outline Competency Migration

	Current Level 3		Harmonized Level 3	Description of Changes
Line H	OVERHEAD DISTRIBUTION (OD)	Line H	OVERHEAD DISTRIBUTION (OD)	
H8 H9	Describe the installation and operation of OD electrical apparatus Install, operate and maintain OD electrical apparatus		<i>See HL4</i>	CL H8 +CL H9 combined and moved to HL4 H7 Operate overhead distribution electrical apparatus, as per RSOS sequencing. Competency name change.
H10 H11	Describe the maintenance of distribution lines (up to and including 3 phase) Maintain distribution lines		<i>See HL4</i>	CL H10 +CL H11 combined into HL4 H6 Maintain three-phase distribution lines, as per RSOS sequencing. Competency name change.
H13 H14	Describe troubleshooting of system components (overhead, UG, transmission) Troubleshoot system components		<i>See HL4</i>	CL H13 +CL H14 combined and moved into HL4 H8 Troubleshoot overhead distribution system components, as per RSOS sequencing. Competency name change.
Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)	
I8 I9	Describe the installation, operation and maintenance of UD electrical apparatus Install, operate and maintain UD electrical apparatus	I4	Operate underground distribution electrical apparatus.	CL I8, CL I9 combined into HL I4. Competency name change.
I10 I11	Describe maintenance of UD conductors Maintain UD conductors		<i>See HL4</i>	CL I10 + CL I11 combined and moved into HL4 I5 Troubleshoot underground distribution systems. Competency name change.
Line J	TRANSMISSION	Line J	TRANSMISSION	
J1	Describe transmission materials	J1	Identify transmission materials	Competency name change
J2 J3	Describe construction of transmission lines Construct transmission lines	J2	Construct transmission lines	CL J2 + CL J3 combined into HL J2 Competency name change.
J4 J5	Describe installation, operation and maintenance of electrical apparatus for transmission Install, operate and maintain electrical apparatus for transmission	J4	Operate transmission electrical apparatus	CL J4 + CL J5 combined into HL J4. Competency name change.
J6 J7	Describe the maintenance of transmission lines Maintain transmission lines	J3	Maintain transmission lines	CL J6 + CL J7 combined into HL J3 Competency name change.

Powerline Technician Program Outline Competency Migration

	Current Level 3		Harmonized Level 3	Description of Changes
Line K	COMMUNICATION	Line K	COMMUNICATION	
K1 K2	Describe the purpose of tailboard meetings Participate in tailboard meetings	K1	Plan tailboard meetings	CL K1 + CL K2 combined into HL K2. Competency name change. Meet and Exceed
K11 K12	Describe communications with apprentices Communicate with apprentices			CL K11 + CL K12 → HL2 K4 Apply communication protocols and requirements

	Current Level 4		Harmonized Level 4	Description of Changes
Line E	ELECTRICAL THEORY	Line E	ELECTRICAL THEORY	
CL3 E8	Describe substation operations, system operations and system protection	E6	Describe system operation and protection	Moved from CL3 E8 <i>Describe substation operations, system operations and system protection.</i> Competency name change
CL3 E9	Perform system switching	E7	Perform system switching	Moved from CL3 E9 <i>Perform system switching</i>
CL3 E10 CL3 E11	Describe voltage regulators and capacitors Demonstrate the installation, operation and removal of voltage regulators and capacitors	E8	Operate voltage regulators and capacitors	Moved from CL3 E10 <i>Describe voltage regulators and capacitors</i> + CL3 E11 <i>Demonstrate the installation, operation and removal of voltage regulators and capacitors</i> Competency name change
Line F	EQUIPMENT	Line F	EQUIPMENT	

Powerline Technician Program Outline Competency Migration

	Current Level 4		Harmonized Level 4	Description of Changes
CL3 F5 CL3 F6	Describe the equipment and procedures for stringing transmission lines Demonstrate stringing transmission lines	F3	Use stringing equipment	Some content moved from CL3 F5 + F6 into HL 4 F3, as per national sequencing (RSOS) Competency name change
Line H	OVERHEAD DISTRIBUTION (OD)	Line H	OVERHEAD DISTRIBUTION (OD)	
CL3 H10 CL3 H11	Describe the maintenance of distribution lines (up to and including 3 phase) Maintain distribution lines	H6	Maintain three-phase distribution lines	CL3 H10 +CL3 H11 combined into HL4 H6, as per RSOS sequencing. Competency name change.
CL3 H8 CL3 H9	Describe the installation and operation of OD electrical apparatus Install, operate and maintain OD electrical apparatus	H7	Operate overhead distribution electrical apparatus	CL3 H8 +CL3 H9 combined into HL4 H7, as per RSOS sequencing. Competency name change.
CL3 H13 CL3 H14	Describe troubleshooting of system components (overhead, UG, transmission) Troubleshoot system components	H8	Troubleshoot overhead distribution system components	CL3 H13 +CL3 H14 combined into HL4 H8, as per RSOS sequencing. Competency name change.
Line I	UNDERGROUND DISTRIBUTION (UD)	Line I	UNDERGROUND DISTRIBUTION (UD)	
CL3 I10 CL3 I11	Describe maintenance of UD conductors Maintain UD conductors	I5	Troubleshoot underground distribution systems	CL3 I10 + CL3 I11 combined into HL4 I5. Competency name change.
Line J	TRANSMISSION	Line J	TRANSMISSION	
		J3	Maintain transmission lines	'Bare hand' content in L4, as per RSOS sequencing.

Powerline Technician Program Outline Competency Migration

	Current Level 4		Harmonized Level 4	Description of Changes
CL3 J4 CL3 J5	Describe installation, operation and maintenance of electrical apparatus for transmission Install, operate and maintain electrical apparatus for transmission	J5	Troubleshoot overhead transmission system components	Some content from J4 + J5 moved to HL J5, to align to RSOS sequencing
Line K	COMMUNICATION	Line K	COMMUNICATION	
		K6	Apply mentoring techniques	New to the RSOS and PO