



Model Curriculum

Senior Lineman-Distribution

- SECTOR: POWER
- SUB-SECTOR: DISTRIBUTION
- **OCCUPATION: LINEMAN**
- REF ID: PSS/Q 0103
- NSQF LEVEL: 5











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SENIOR LINEMAN-DISTRIBUTION

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Senior Lineman-Distribution", in the "Power" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Senior Lineman-Distribution		
Qualification Pack Name & Reference ID. ID	Senior Lineman-Distribution PSS/Q 0103		
Version No.	1.0	Version Update Date	30-06-2021
Pre-requisites to Training	8th, Electrical - 6 mon	ths, preferably ITI	
Training Outcomes	 Gain Familia overview espe electricity tern etc. Able to Inspect Components senior technic Substation, Li visual, sensor handling of to tasks in a safe include makin maintenance Able to Repa Lines and co required by te Distribution Li tools and equ carrying out n efficient and e and corrective and cables. Able to Oper Substation: T technicians to Distribution S install the Sub equipment for 	s programme, participant rity with Power distributi ecially Distribution Sector. Ins, understanding of variou ect Power Distribution Su to this unit covers the com- bians for inspection of Power nes and Components. This y and instrument based te- ols and equipment and car e, efficient and effective ma- g recommendations for pro- as well. ir and maintain Sub-stati mponents: This unit cove chnicians for repair and mainte- installation and ecessary repair and mainte- erect and conduct mainte- ubstation. This includes wo ostation transformer, handl installation and maintenar- iks in a safe, efficient and e	on system and basics: Understand basics of us types of energy meter Ibstation, Lines and petencies required by er Distribution s includes patrolling and sting and evaluation, rrying out necessary anner. This will also eventive and corrective ion, Power Distribution rs the competencies aintenance for Power is includes handling of maintenance and enance tasks in a safe, also include preventive d and underground lines 3 KV Distribution tencies required nance for an 11/0.433 KV orking with the crew to ing of tools and nce and carrying out









This course encompasses <u>6</u> out of <u>6</u> National Occupational Standards (NOS) of "Senior Lineman- Power Distribution" Qualification Pack issued by "Power Sector Skill Council".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code PSS/N0109	 Understand Power sector scenario including generation, transmission, and distribution scenario of India. Understand Functions of Power Distribution Companies Understand Elements of power systems, transmission, distribution and generations. Familiarization with distribution network from substation to end consumer 	
2	Organizational context Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code PSS/N0109	 Understand Organization structure and reporting levels Understand Duties and responsibilities of Assistant Electricity Meter Reader, Billing and cash collector and their career progression Understand Relevant Legislation, Electricity act 2003, CERC,SERC Understand CEA guidelines 	
3	Basics Of ElectricityTheory Duration(hh:mm)04:00Practical Duration(hh:mm)04:00Corresponding NOS CodePSS/N0109	 Understand Basic fundamentals of Electricals Explaining the basic key concepts of Voltage, Current, Capacitance, Resistance, KVA, KWh. Understand Circuit connections, voltage and current relationship in star & delta configuration3 phase and 1 phase supply Familiarity with Energy parameters Understand types of energy meter and metering techniques 	Voltmeter, Ammeter, Wattmeter, basic components, Energy Meter (single phase and three phase) etc.
4	Inspection of Power Distribution Substation, Lines and Components Theory Duration (hh:mm) 24:00 Practical Duration (hh:mm) 64:00 Corresponding NOS Code PSS/N0109	 Analyze the faults in substation and distribution lines Understand about the underground distribution system apparatus Examine the importance of inspecting overhead lines Know about the circumstances for ad hoc inspection Review the maintenance of cable trench co-existing with underground utilities 	







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Sr. No.	Module	Key Learning Outcomes	Equipment Required
5	Repair and Maintenance of Power	 Identify the need of periodic patrolling of overhead lines at ground level Prepare line patrol log sheet Study schedule of periodical routine inspection of lines Compare the advantages and disadvantages of overhead line system over underground cable system Identify basics of electricity. Recall the common electricity 	
	Distribution Lines Theory Duration (hh:mm) 24:00 Practical Duration (hh:mm) 64:00 Corresponding NOS Code PSS/N0105	 terminology. Organise and explain the various elements of the power system. Monitor the use of various materials and accessories used in power distribution. Distinguish the tools used in maintenance activities. Test and analyse various types of circuits. 	
6	Operation and Maintenance of 11/0.433 kV Distribution Substation Theory Duration (hh:mm) 24:00 Practical Duration (hh:mm) 40:00 Corresponding NOS Code PSS/N0107	 Analyse the working of different components of the distribution sub-station. Plan an activity illustrating the importance of sub-station protection equipment. Evaluate the importance of sub-station protection equipment. Provide the measures for sub-station construction. Monitor the distribution transformer maintenance activities. Explain the precautions for each part of the transformer. Illustrate the causes of failure of transformer with a flowchart. Construct a pictorial analysis of types of cable joints. Provide examples of aerial bundled cables. 	
7	Supervise Work and Crew in Power Distribution Installation and Maintenance Work	 Interpret the importance of reporting structure Explain the necessity of recording incidents 	







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Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration (hh:mm) 16:00 Practical Duration (hh:mm) 22:00 Corresponding NOS Code	 Learn to deal with complaints and grievances Discuss the significance of reporting a problem in time Understand the concept of productivity Describe the components of performance development Examine the value of recording performance 	
8	PSS/N0110 Use of basic Health & Safety practices at the work place Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code PSS/N 2001	 To understand basic health and safety practices covering CEA safety regulations 2010, issue of permit to work etc. To study uses of PPE equipment's during at work site e.g. safety helmet, belt, shoes, protective glasses, earth rod, etc. Retrieve and point out documentation that refers to safety, health policy and standard Information to relevant authority for any abnormal situation/ behaviour of any equipment's Good housekeeping practises and disposal of waste Identify common hazard , Storage of flammable materials and oils safely Possible causes of risk or accident Safe working practices when working with tools and machines Electrical safe working procedures such as Tag out, Lockout, Permit to work Recognize any abnormalities in system installed , alarms, noticing parameters Fire safety, causes and precautionary activities. Use of appropriate fire extinguishers on different types of fires Demonstrate rescue techniques applied during fire hazard, correct method to move injured people during emergency Various types of safety signs and what they mean Lift, carry and transport heavy 	Helmet, Gloves, rubber mat, ladder, neon tester, Personal Protective Equipment







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Sr. No.	Module	Key Learning Outcomes	Equipment Required		
9	Work effectively with other Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 16:00 Corresponding NOS Code PSS/N 1336	 objects, and tools, safely, using correct procedures from storage to workplace and vice versa Administer appropriate first aid to victims , bandaging heart attack, CPR, etc. Demonstrate how to free a person from electrocution Respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments Inform relevant authority about any abnormal situation Complete written accident report to concern person responsible Working effectively in a team. Demonstrate good interpersonal relation, discipline behaviour, developing a positive attitude and building self-confidence. Receiving information and instruction from supervisor and fellow workers, pass on information Assist others to maximize effectiveness Problem escalation Demonstrate responsible, disciplined behavior's at workplace Display appropriate communication And Writing Skills and their importance Basic Computer application 			
	Total Duration	Unique Equipment Required: Transformer oil test kit, Relay test kit. Diffe	erent types of meter,		
	Theory Duration 120:00	Thermo vision Camera, first aid kit			
	Practical Duration 230:00				

Grand Total Course Duration: 350Hours, 0 Minutes

(This syllabus/ curriculum has been approved by **POWER SECTOR SKILL COUNCIL)**





Trainer Prerequisites for Job role: "Senior Lineman-Distribution" mapped to Qualification Pack: "PSSC/Q 0103, v1.0"

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "PSS/Q 0103
2	Personal Attributes	Aptitude for conducting training, with relevant work experience. So, that competent candidate is produced at end of the training who are employable. Strong communication skills, interpersonal skills, ability to work as part of a team, a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	ITI in Electrical trade ; Preferably B.Tech(Electrical) or 3 year Diploma in Electrical Engineering
4a	Domain Certification	Certified for Job Role: <u>"Senior Lineman-Distribution"</u> mapped to QP: <u>"PSSC/Q</u> <u>0103 v1.0"</u> ., Minimum accepted score as per PSSC guidelines- 80% for Trainer and 90% for Master Trainer
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q0102". Minimum accepted score as per PSSC guidelines – 80% for Trainer and 90% for Master Trainer.
5	Experience	Engineer B.Tech. (Electrical) with at least 1-year relevant experience in power distribution either in the Power Distribution utility or with the turnkey /EPC contractors of the power distribution companies carrying out the work of erection of power distribution lines and sub stations etc.
		Diploma in Electrical Engineering with at least 2-3 years' relevant experience in power distribution either in the Power Distribution utility or with the turnkey /EPC contractors of the power distribution companies carrying out the work of erection of power distribution lines and sub stations etc.
		ITI Electrician with at least five-year relevant experience in power distribution either in the Power Distribution utility or with the turnkey /EPC contractors of the power distribution companies carrying out the work of erection of power distribution lines and sub stations etc.





Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Senior Lineman-Distribution
Qualification Pack	PSS/Q 0103, v1.0
Sector Skill Council	Power

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.

3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.

4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).

5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.

6. To pass the Qualification Pack , every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.

7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.





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				Mark Allocation	
		Total Mark			Skills
		(600)	Out of	Theory	Practical
1. PSS/ N 0109: Inspection of Power Distribution	PC1. work safely at all times, complying with health and safety legislation, regulations and other relevant guidelines		3	1	2
Substation, Lines and Components	PC2. adhere to procedures or systems in place for health and safety, personal protective equipment (PPE) and other relevant safety regulations for electrical				
	and related operations		3	1	2
	PC3. work following laid down procedures and instructions		2	1	1
	PC4. ensure that all tools, equipment, etc. are in a safe and usable condition and are kept at secured location		1	0	1
	PC5. ensure work area is clean and safe from hazards before and after the job is completed		1	0	1
	PC6. prepare and maintain the work area as per procedure or operation specification		2	1	1
	PC7. inspect power transformers including general transformer appearance, bushings, free of contamination, no oil leaks, auxiliary cooling system safely and as per required and approved procedures	100	3	1	2
	PC8. inspect circuit breakers including general breaker appearance, bushings, for contamination, oil leaks, doors locked and working safely and as per required and approved procedures		3	1	2
	PC9. inspect insulators including substation, bus support, suspension, etc. using safe and correct methods		3	1	2
	PC10. inspect any steel superstructures where applicable		3	1	2
	PC11. inspect substation components including circuit switchers, disconnect switches, coupling capacitors, capacitors, cable potheads, lightning arresters, metal-clad switchgear, relays, etc. safely, as per required and approved procedures		3	1	2





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all in				
	PC12. inspect communication			
	equipment, back-up battery systems,			
	control house, etc. as per required and			
	approved procedures	3	1	2
	PC13. inspect for physical security			
	including locks on switches, enclosures,			
	and gates, fences, gates, and warning			
	signs (including washouts) to identify			
	risks	3	1	2
	PC14. inspect grounds and the			
	grounding system including broken,			
	loose, or exposed wires and exposed			
	ground rods as per required and			
	approved procedures	3	1	2
	PC15. inspect for weeds and bird nests,			
	such growth which may hamper access,			
	deteriorate conditions of equipment and			
	components, increase moisture content			
	and support insect growth	2	1	1
	PC16. carry out specific equipment			
	tests on the equipment based upon			
	frequency of operation such as Oil			
	dielectric tests, Relay tests, Infrared			
	tests, Voltage regulation equipment			
	tests accurately, efficiently and safely	2	0	2
	PC17. carry out predictive maintenance			
	tests of load tap changer motor-control			
	circuitry, and of breaker operator			
	mechanisms accurately and safely	2	0	2
	PC18. carry out battery and battery-			
	charger tests accurately and safely	2	0	2
	PC19. follow and develop plans and			
	schedule inspections of distribution lines			
	including regular periodic and special			
	routines such as pre-monsoon			
	inspection	2	0	2
	PC20. identify various types of circuits			
	and its components accurately	1	0	1
	PC21. identify and acquire correct	±	5	
	tools, equipment and instruments			
	required for Distribution line assessment			
	and inspection	1	0	1
	PC22. ensure the tools and equipment			
	is well maintained, calibrated and			
	approved for use	1	0	1
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		-	
PC23. access and survey area in			
accordance with established procedures	2	1	1
PC24. assess components of			
distribution line for damage or risk for			
-			
damage through visual, sensory and instrument methods	1	0	1
	T	0	1
PC25. carry out pole to pole inspection			
using patrolling as per job requirement,			
safely and efficiently	3	1	2
PC26. assess and confirm condition of			
pole structure based on Distribution line			
standards	3	1	2
PC27. check guys for damage, distance			
to primary conductor or equipment,			
insulator condition accurately	3	1	2
PC28. check pole top assemblies for			
damage, safely and as per required and			
approved procedures	4	1	3
PC29. perform load checks to identify			
imbalanced and overloaded circuits			
accurately and safely	3	1	2
PC30. assist engineer in testing cable	5		۲
integrity and designation by using			
methods such as ultra-low frequency	2		4
(ULF), very low frequency (VLF)	2	1	1
PC31. check line conductors for			
damage, slack, tension, sparks and			
burns, foreign objects, clearance, etc.			
safely and as per required and approved			
procedures	3	1	2
PC32. identify hazards of trimming			
trees such as limits of approach, public			
safety and step and touch potential	2	0	1
PC33. conduct site inspection for			
emergency cases following established			
procedures	3	1	2
PC34. observe and follow safety	5	<u> </u>	<u>د</u>
procedures	3	1	2
•	3	1	Ζ
PC35. document and record findings			
clearly, accurately and in required detail		~	
using correct forms and formats if any	1	0	1
PC36. prepare recommendations for			
corrective and preventive maintenance			
based on the findings of the inspection	2	0	2
PC37. clean and test Distribution line			
tools according to standard procedures	2	1	1
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	PC38. inspect, repair and replace				
	distribution line tools and equipment, if				
	necessary after use		2	1	1
	PC39. restore system to normal				
	operating status by using switching				
	procedures where disconnected		2	1	1
	PC40. record details of inspection				
	accurately and clearly in required				
	ledgers, forms and formats as per				
	required and approved procedures		2	1	1
	PC41. make correct and required				
	recommendations for repair and				
	maintenance where risks, faults or				
	damage recorded		3	1	2
	PC42. deal promptly and effectively				
	with problems within control, and seek				
	help and guidance from the relevant				
	people for problems that cannot be				
	resolved		2	0	2
	PC43. leave the work area in a safe and				
	tidy condition on completion of the				
	inspection and testing activities		1	0	1
	PC44. refer unresolved job related				
	problems to appropriate personnel for				
	support		1	0	2
	PC45. monitor the problem and keep				
	the supervisor informed about progress				
	or any delays in resolving the problem		1	0	1
		Total	100	28	72
2. PSS/ N 0105:	PC1. work safely at all times,	lotai	100	20	, 2
Repair and	complying with health and safety				
maintenance of	legislation, regulations and other				
Sub-station,	relevant guidelines		3	1	2
Power	PC2. adhere to procedures or systems		5	-	
Distribution	in place for health and safety, personal				
Lines and	protective equipment (PPE) and other				
components	relevant safety regulations for electrical				
	and related operations	100	3	1	2
	PC3. work following laid down		,	-	Z
	procedures and instructions		2	1	1
	PC4. ensure that all tools, equipment,		-	-	1
	etc. are in a safe and usable condition				
	and are kept at secured location		1	0	1
	PC5. ensure work area is clean and		-	<u> </u>	1
	safe from hazards before and after the				
	job is completed		1	0	1
I	Jos is completed	1	-	5	±





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PC6. access and survey area in			
accordance with established procedures	_	_	_
	3	1	2
PC7. assess and confirm condition of			
pole structure and components based			
on Distribution line standards	4	2	2
PC8. perform load checks to identify			
imbalanced and overloaded circuits	n	0	2
	2	0	2
PC9. identify hazards of trimming			
trees such as limits of approach, public			
safety and step and touch potential			
prior to commencing work	2	0	2
PC10. conduct site inspection for			
emergency cases following established			
procedures	3	1	2
PC11. identify various types of circuits	1	0	1
	T	0	
PC12. identify and acquire correct			
tools, equipment and instruments			
required for Distribution line assessment			
and inspection	1	0	1
PC13. ensure the tools and equipment			
is well maintained, calibrated and			
approved for use	1	0	1
PC14. use Distribution line tools,			
equipment and hardware in line with job			
requirements for maintenance			
•	2	4	1
operations	2	1	1
PC15. prepare and maintain the work			
area as per procedure or operation			
specification	2	1	1
PC16. switch off, isolate, discharge and			
earth (side) line cables	2	0	2
	۷	U	۷
PC17. confirm and/or obtain PTW/work			
permit (shut down) is taken to proceed			
to work from appropriate personnel in			
accordance with standard procedure	3	1	2
PC18. safely operate switchgears eg.			
on/off, earth, etc.	2	0	2
PC19. perform off-line overhead line			
maintenance procedure according to job			
specifications and requirements	4	2	2
PC20. perform off-line underground		<u>۲</u>	
line maintenance procedure according		2	2
to job specifications and requirements	4	2	2
PC21. perform stay wire assembly as			
per requirements and specifications,			
safely and efficiently	4	2	2





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PC22. ensure lines are properly aligned by tightening appropriate nuts and bolts202PC23. ensure proper clearance of lowest conductor from ground202PC24. ensure guy insulators are of suitable capacity to the stay sets202PC25. select and use test equipment such as tong testers/clip-on meter, meggers and voltmeters to verify fault and integrity202PC26. sectionalize circuit to determine location of fault202PC27. isolate fault, damage or hazard and restore power to customers using equipment such as switches202PC28. repair conductor by splicing, jointing, using armor rods, line guards, vibration dampers202PC29. check work carried out by team members and ensure it is as per standard requirement422PC30. provide useful feedback regarding work matter to team members in a timely, polite and supportive manner202PC32. ensure pole dismantling and re- setting procedure, paving conductor on the ground along the pole taking into account permissible span length and sagging303PC34. replace components such as transformers, disconnects, conductors, poles, switches, elbows and terminations and insulators safely and as per company procedure312PC35. replace other line components due to damage or unsuitability as per standard procedure, where required312				
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terminations and insulators safely and as per company procedure312PC35. replace other line components due to damage or unsuitability as per6666				
as per company procedure312PC35. replace other line components due to damage or unsuitability as per	•			
PC35. replace other line components due to damage or unsuitability as per	-	3	1	2
due to damage or unsuitability as per				
	standard procedure, where required	3	1	2

POWER SCOOR SELL	Skill in	ndia	EL DANAGUET Trasse	N - 5 - D + C Rational Skill Developmen Corporation	
	PC36. make connections and energize				
	replaced underground cables, as per				
	standard procedures where required	-	4	2	-
	PC37. restore system to normal				
	operating status by using switching				
	procedures	-	3	1	
	PC38. deal promptly and effectively				
	with problems within control, and seek				
	help and guidance from the relevant				
	people for problems that cannot be				
	resolved	-	2	0	
	PC39. leave the work area in a safe and				
	tidy condition on completion of the				
	repair and maintenance activities	-	2	0	
	PC40. refer unresolved job related				
	problems to appropriate personnel for		2		
	support	-	2	0	
	PC41. monitor the problem and keep				
	the supervisor informed about progress		2		
	or any delays in resolving the problem		2	0	
		Total	100	25	7
3. PSS/ N 0107:	PC1. work safely at all times,				
Operation and	complying with health and safety				
maintenance of	legislation, regulations and other				
11/0.433 KV	relevant guidelines	-	3	1	
Distribution	PC2. adhere to procedures or systems				
Substation	in place for health and safety, personal				
	protective equipment (PPE) and other				
	relevant safety regulations for Electrical				
	and related operations	-	3	1	
	PC3. work following laid down				
	procedures and instructions	-	2	1	
	PC4. ensure that all tools, equipment,				
	power cables are in a safe and usable	100			
	condition and are kept at secured				
	location	-	2	0	
	PC5. ensure work area is clean and				
	safe from hazards before and after the				
	job is completed	-	2	0	
	PC6. inspect the component to check if				
	it is as per specification and without				
	defects	4	3	1	
	PC7. identify job requirements for				
	specific operations as per instructions				
	given from valid sources	4	3	1	
	PC8. identify various components of				
	the power system		2	1	





THE OF SALL DEVELOPMENT

N-S-D-C National Skill Development Corporation

112		and the second second			
	PC9. ensure equipment and tools				
	required for installation work are				
	identified, acquired, calibrated, suitable				
	and approved for use		2	0	2
	PC10. identify, estimate and acquire				
	correct materials required for the				
	Substation erection and installation				
	work		2	0	2
	PC11. follow standard specifications				
	and procedures for installing a pole				
	mounted distribution transformer		5	2	3
	PC12. ensure poles set to proper depth,				
	and properly aligned		2	0	2
	PC13. carry out erection of channel on				
	the double pole for preparation of				
	transformer bed as per requirement		5	2	3
	PC14. fix lightening arrester as per				
	requirement and standard procedure		1	2	2
			4	2	2
	PC15. install earth connection as per		2	1	2
	standard procedure		3	1	2
	PC16. install cross arm as per				2
	specifications and requirement		3	1	2
	PC17. provide anti-climbing device on				
	poles		2	0	2
	PC18. arrange to lift the transformer				
	and put it on the transformer bed in a				
	safe and efficient manner		3	0	3
	PC19. fit the Gang operating (GO				
	Switch) and dropout fuse as per		_		
	standard procedure		5	2	3
	PC20. follow applicable construction				
	standards eg. REC construction				
	standards, for carrying out the erection				
	procedures		4	2	2
	PC21. connect low voltage cables as per				
	standard procedures in a safe and				
	efficient manner		3	1	2
	PC22. carry out low voltage able joints				
	as per standard procedures, safely and				
	effectively		3	1	2
	PC23. perform post-installation				
	procedures for ensuring clean and safe				
	environment in the work and				
	surrounding area		2	0	2
	PC24. check Oil level and ensure				
	leakages are attended to and arrested		2	0	2
		•		•	





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					A .
	PC25. check Oil BDV and acidity at	· [·	í –		
	regular intervals as per schedule and		1		
	standard procedure	!	3	1	2
	PC26. checking for sludge, dust, dirt	'			
	, moisture ion in oil and address it	'	1		
	effectively in a timely fashion	'	2	0	2
	PC27. clean bushings regularly and	'			
	inspect for any cracks	'	2	0	2
	PC28. check, note and rectify dust &	1 1	<u> </u>		
	dirt deposition, salt or chemical	'	1		
	deposition, cement or acid fumes	'	1		
	depositions	'	2	0	2
	PC29. check tap position and gap of	1 '	1		
	arching horn and tighten connection as	'	1		
	requirement to address any issues	'	3	1	2
	PC30. check neutral grounding and	1	<u> </u>		
	ensure it is maintained as per standard	'	3	1	2
	PC31. periodically check for any loose	1 1	-		· · · · ·
	connections of the terminations of HV &	'			
	LV side	'	2	0	2
	PC32. examine the breather through	1	1		
	color of silica gel , if pink heat it or	'	1		
	replace if necessary	'	2	0	2
	PC33. ensure facility is locked and	1	<u> </u>		
	warning signs are displayed effectively	'	2	0	2
	PC34. deal promptly and effectively	1 '			
	with problems within control, and seek	'			
	help and guidance from the relevant	'	1		
	people for problems that cannot be	'	1		
	resolved	'	3	0	3
	PC35. leave the work area in a safe and	1 '	1		
	tidy condition on completion of the	'			
	substation construction and	'	1		
	maintenance activities	'	2	0	2
	PC36. refer unresolved job related	1 '	i – – – – – – – – – – – – – – – – – – –		
	problems to appropriate personnel for	'			1
	support	'	2	0	2
	PC37. monitor the problem and keep	1 1			
	the supervisor informed about progress	'	1		
	or any delays in resolving the problem	!	2	0	2
		Total	100	23	77
4. PSS/ N 0110:	PC1. work safely at all times,	ŀ			1
Supervise work	complying with health and safety		1		
and crew in	legislation, regulations and other	100	1		
power	relevant guidelines	'	6	2	4
· · ·	ŭ	4	·		





VERSIONE OF INDA

N. S. D. C National Still Development Corporation

		1			
distribution	PC2. work following laid down				
installation and	procedures and instructions		4	1	
maintenance	PC3. ensure that work is done within				
work	the specified departmental rules and				
	regulations, organisation rules, span of				
	authority, roles and responsibilities for				
	self and other team members		5	2	
	PC4. ensure work area is clean and				
	safe from hazards before and after the				
	job is completed		4	1	
	PC5. ensure self and all team				
	members have completed necessary				
	training in electrical safety and other				
	mandatory trainings		4	1	
	PC6. ensure while carrying out				
	electrical work during repair and				
	maintenance, installation or other work				
	in the vicinity of power lines,				
	substations, etc. all team members are		5	n	
	complying with PPE requirements		5	2	
	PC7. requisition necessary				
	equipment, tools, materials or PPE gear				
	from the store for carrying out work as		_		
	per job and safety requirements		6	2	
	PC8. explain to team members				
	requirements of the job or task plan and				
	clarify for shared understanding		5	1	
	PC9. inspect work being carried out				
	by team members to ensure work is				
	being carried out safely and as per				
	required and approved procedures		6	2	
	PC10. inspect preparation, process and				
	output of work to assess suitability as				
	per job specifications and compliance to				
	organisational and other rules and				
	regulations		6	2	
	PC11. ensure time on the job is utilised				
	properly to achieve optimum				
	productivity and efficiency		5	2	
		•	J	Ζ	
	PC12. assist team members to develop				
	their own knowledge, skills and abilities				
	by providing timely and accurate		_		
	guidance, feedback and responsibilities		5	1	
	PC13. address low performance				
	through training, informal and formal				
	guidance, support from other		6	2	





SOVERING OF IND

N - S - D + C National Skill Development Corporation

	supervisors, management and HR				
	department				
	PC14. record details of performance				
	and other records required by				
	organisation and departmental				
	authorities, details accurately and				
	clearly in required ledgers, forms and				
	formats as per required and approved				
	procedures		6	2	4
	PC15. address grievances and				т
	complaints promptly and as per				
	organizational guidelines		6	2	4
	PC16. report incident and accidents as			2	
	per organisational procedure in a timely				
	fashion with necessary detail		6	2	4
	PC17. deal promptly and effectively	1			4
	with problems within control, and seek				
	help and guidance from the relevant				
	people for problems that cannot be				
	resolved		5	1	4
	PC18. refer unresolved job related		5		4
	problems to appropriate personnel for				
	support		5	1	4
	PC19. monitor the problem and keep		5		4
	the supervisor informed about progress				
	or any delays in resolving the problem		5	1	1
	of any delays in resolving the problem				4
	1	Total	100	30	70
5. PSS/ N 2001	PC1. use protective				
(Use basic health	clothing/equipment for specific tasks		-		_
and safety	and work conditions		3	0	3
practices at the	PC2. state the name and location of				
workplace)	people responsible for health and safety				
	in the workplace		2	0	2
	PC3. state the names and location of				
	documents that refer to health and				
	safety in the workplace	100	2	0	2
	PC4. identify job-site hazardous work				
	and state possible causes of risk or				
	accident in the workplace		3	1	2
	PC5. follow electrical safe working				
	procedures such as Tag out/Lock out,				
	PTW (Permit To Work),		3	1	2
	PC6. follow warning signs (danger, out				
	of service, etc.) while working with				
	electrical systems		3	1	2





THE OF SALL DEVELOPMENT

N - 5 - D - C National Salt Development Corporation

PC7.	use standard safe working			
practic	es when working at heights,			
confine	ed areas and trenches	3	1	2
PC8.	test any electrical equipment			
and sys	stem using insulated testing			
device	s before touching them	3	1	2
PC9.	ensure positive isolation of			
electric	cal equipment & system as per			
given s	tandards	3	1	2
PC10.	recognize any abnormalities in			
electric	cal equipment or system installed			
alarma	annunciation and/or noticing			
param	eters from gauge/ indicator			
installe	d	3	1	2
PC11.	carry out safe working practices			
while o	lealing with hazards to ensure the			
safety	of self and others	3	1	2
PC12.	state methods of accident			
prever	tion in the work environment of			
the job	role	2	0	2
PC13.	state location of general health			
	fety equipment in the workplace	2	0	2
	inspect for faults, set up and			
	use of scaffolds and elevated			
-	ms and ladders	2	0	2
	lift, carry and transport heavy			
	s & tools safely using correct			
-	ures from storage to workplace			
	e versa	3	1	2
	inspect power plant and its			
	nent routinely for any signs of oil,			
	and/or steam leakage	3	0	3
	store flammable materials and			
	ne lubricating oil safely and			
correct		2	0	2
	check that the emission and			
	on control devices are working			
	ly in line with environmental			
	standards	5	2	3
	apply good housekeeping			
	es at all times	3	1	2
			† <u> </u>	2
	identify common hazard signs			_
	ed in various areas	2	0	2
	retrieve and/or point out			
	ents that refer to health and			_
safety	in the workplace	2	0	2





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	PC22. inform relevant authorities about				
	any abnormal situation/behavior of any				
	equipment/system promptly		3	0	3
	PC23. use the various appropriate fire				
	extinguishers on different types of fires				
	correctly		4	1	3
	PC25. demonstrate good housekeeping			t	
	in order to prevent fire hazards		3	1	2
	PC26. demonstrate the correct use of a		3	1	2
	fire extinguisher		3	1	2
	PC27. demonstrate how to free a		5	I	Z
	person from electrocution		3	1	2
	-		5		Z
	PC28. administer appropriate first aid				
	to victims where required e.g. in case of bleeding, burns, choking, electric shock,				
	poisoning etc.		3	0	3
			5		
	PC29. demonstrate basic techniques of		3	1	2
	bandaging		5	I	Z
	PC30. respond promptly and appropriately to an accident situation or				
	medical emergency in real or simulated				
	environments		3	1	2
	PC31. perform and organize loss		5	⊥	Z
	minimization or rescue activity during an				
	accident in real or simulated				
	environments		3	1	2
	PC32. administer first aid to victims in		5		2
	case of a heart attack or cardiac arrest				
	due to electric shock, before the arrival				
	of emergency services in real or				
	simulated cases		3	1	2
	PC33. demonstrate the artificial		5		2
	respiration and the CPR Process		2	1	2
			3	1	2
	PC34. participate in emergency		2	1	2
	procedures		3	1	2
	PC35. complete a written				
	accident/incident report or dictate a				
	report to another person, and send		2	1	2
	report to person responsible		3	1	2
	PC36. demonstrate correct method to				
	move injured people and others during		2	1	2
	an emergency		3	1	2
		Total	100	24	76
6. CSC/ N 1336					
6. CSC/ N 1336 (Work effectively with others)	PC1. accurately receive information	100			





SOVERIMENT OF INDA

N-5-D+C National Sale Development Corporation

	1	1		
fellow workers, getting clarification				
where required				
PC2. accurately pass on information				
to authorized persons who require it				
and within agreed timescale and confirm				
its receipt		10	3	7
PC3. give information to others				
clearly, at a pace and in a manner that				
helps them to understand		10	3	7
PC4. display helpful behavior by				
assisting others in performing tasks in a				
positive manner, where required and				
possible		10	3	7
PC5. consult with and assist others to				
maximize effectiveness and efficiency in				
carrying out tasks		10	3	7
PC6. display appropriate				
communication etiquette while working		10	3	7
PC7. display active listening skills				
while interacting with others at work		10	3	7
PC8. use appropriate tone, pitch and				
language to convey politeness,				
assertiveness, care and professionalism		10	3	7
PC9. demonstrate responsible and				
disciplined behaviors at the workplace		10	3	7
PC10. escalate grievances and				
problems to appropriate authority as				
per procedure to resolve them and				
avoid conflict		10	3	7
	Total	100	30	70







Transforming the skill landscape

Power Sector Skill Council Plot No.4, Institutional Area, CBIP Building, Malcha Marg, Chanakyapuri, New Delhi – 110021