

Introduction

The International Programme on the Elimination of Child Labour (IPEC) of the International Labour Organisation (ILO) has promoted a variety of measures to progressively eliminate child labour, giving priority to the eradication of the worst forms of child labour in Nepal. IPEC's interventions are implemented in partnership with the government, trade unions, employer's associations and non-governmental organizations. One of the innovative programmes promoted by IPEC include the Time Bound Programme (TPB), which aims to prevent and eliminate selected worst forms of child labour, as defined in ILO Convention No. 182, within a defined period of time.

The objective of the Time-Bound Programme (TBP) is to contribute to the Master Plan of His Majesty's Government of Nepal for the Elimination of Child Labour. The Time-Bound Programme is going to take various steps in eliminating the identified seven worst forms of child labour in Nepal: child porters, child domestics, children in trafficking, child ragpickers, children in carpet factories, children in mine/stone quarries and child bonded labour.

The educational interventions of the TBP in Nepal have been among the most effective instruments for the prevention of child labour and the rehabilitation of former child workers. The TBP & Brighter Future Programme (BFP) of World Education (WEI) measures promote access to free education and appropriate vocational training and apprenticeship opportunities for all children and youth removed from the identified worst forms of child labour. In this context, ILO and World Education (WEI) have taken the initiative to design apprenticeship-training programs in various trade areas for the older children working in the worst forms of child labour.

Rational of the programme

The vocational trainings in Nepal have resulted mixed outcomes. Although, there is a rapid proliferation of the technical and vocational training providers and the youth enrolment has been in increasing trend, there are some fundamental problems. Basically, the training programmes are much structured and the training delivery is made in institution-based environment. Similarly, there are minimum standard that needs to be maintained for enrolment. Considering the low literacy background of children engaged in the identified worst forms of child labour, the standard for admission to vocational training institutes is too high. Furthermore, many vocational training institutes have a very high cost. Therefore, ILO and WEI have taken the initiative to look more carefully into apprenticeship models as an alternative to vocational training for older working children.

According to IPEC Nepal and WEI, the term apprenticeship for TBP refers to supervised on-the-job training that provides practical skills and theoretical knowledge and also the experience of a work environment. It is a learning method that prepares a young person at least 14 years of age for a real job by giving him/her a set of welldefined occupational abilities through close supervision and guidance from a potential employer, or from a mentor. Apprenticeship can build confidence in young people, and remind them that they have a positive role to play in their community, and in their country.

Overall objectives

The overall objective of the programme is to eliminate exploitative and hazardous child labour by providing them with skills and knowledge to attain better employment and economic opportunities and linking them to national development efforts including economic, educational and labour market policies of Nepal.

Terminal objectives

After the completion of this course an apprentice will be able:

- to perform electrical layouts for various types of house wirings,
- to install electrical boxes and switches,
- to fit and check electrical accessories,
- to perform earthing, and
- to assit the senior electrician to perform repair and maintenance of electrical works.

Course description

This course is designed to help the apprentices to provide basic knowledge and skills on house wiring. The apprentices will develop their competencies working in the house wiring works of buildings in an unstructured way. This course especially provides skills focusing on domestic wiring and fittings. This course also provides skills about repair and maintenance of various domestic electrical installations and fittings.

Target group

This programme is targeted to the older children engaged in the worst forms of child labour who are above 14 years old. In Nepal, the worst form of child labour include;

- 1. Domestic child labourers,
- 2. Child porters,
- 3. Child bonded labourers,
- 4. Children involved in trafficking,
- 5. Rag picking children,
- 6. Child labourers in carpet industry, and
- 7. Child labourers in stone quarries and mines.

Group size

The number of apprentice can vary depending upon the facilities available with the apprenticeship-training providers. **Ideally, this should not exceed five in numbers**.

Entry criteria

An apprentice must be or have

- 1. Engaged in the worst form of child labour.
- 2. Between 14 to 18 years old.
- 3. Interest and commitment in apprenticeship training.
- 4. Current employer's/guardian's consent.
- 5. Basic literacy.

Duration

Three to five months (2 to 3 hours per day and 5 to 6 days a week) OR as per the agreement between apprenticeship provider and TBP implementing organisation. However, the theory and practical time should be arranged in the ratio of 20:80.

Medium of instruction: Nepali.

Pattern of attendance

The apprentice should secure 90% attendance during the training period.

Certificate requirements

National Skill Testing Board (The Skill Testing Division of the Council for Technical Education and Vocational Training, CTEVT) according to its requirement administers skill tests and provides certificate to apprentice.

Apprenticeship provider's qualification

An apprenticeship provider must have:

- 1. Enthusiasm and motivation to train the older children in the worst form of child labour
- 2. Qualification and experience in training.
- 3. Proper tools, equipment and space for training.
- 4. Safe working environment.
- 5. Possibility of employment opportunity.

Trainees evaluation

The apprenticeship-training providers will continuously evaluate the apprentice based on their performance.

Equipment, tools and materials

Depending upon the frequency of uses and the number of apprentice the number/quantity of tools/equipment/material varies.

S. No.	Name of the tools/equipment	Units
1.	Tester	
2.	Pliers	
3.	Screwdriver	
4.	Hammer	
5.	Chisel	
6.	Hacksaw	
7.	Measuring tape	
8.	Drill Machine	
9.	Multimeter	
10.	Punch	
11.	Grip	
12.	Adze	

C N-		Detter and Commeter in /Tracks/Shills	Time (in hrs.)				
S. No		Duties and Competencies/Tasks/Skills	Th.	Prac.	Total		
A.		to layout pipe in concrete					
	A. 1.	Assist in laying out	1	3	4		
	A. 2.	Fix circular box in ceiling center	1	3	4		
	A. 3.	Divide pipe as required	1	3	4		
	A. 4.	Put pipe for telephone/cable	1	3	4		
	A. 5.	Put pipe for mainline	1	3	4		
	A. 6.	Put GI pipe for gate light	1	3	4		
B.		re surface for wiring					
	B. 1.	Chip wall	1	6	7		
	B. 2.	Put/ Fix pipe	1	3	4		
	B. 3.	Put/ Fix Junction band	1	2	3		
	B. 4.	Put/ Fix Pipe for telephone/cable in wall	1	3	4		
	B. 5.	Put/ Fix wooden plastic bed	1	3	4		
C.		to place wire	-	5			
	C. 1.	Check wire gauge / continuity	1	3	4		
	C. 2.	Put earthing supply wire	1	3	4		
	C. 3.	Put circuit wire (half wire)	1	3	4		
	C. 4.	Place telephone wire	1	2	3		
	C. 5.	Place cable wire	1	2	3		
	C. 6.	Put main supply wire	1	2	3		
D.		to place board/box	1	2	5		
D.	D. 1.	Place switch box	1	2	3		
	D. 1. D. 2.	Place Holder box	1	2	3		
	D. 2. D. 3.	Place Power box	1	2	3		
	D. 3. D. 4.		1	2	3		
	D. 4.	Place telephone box	1	2	3		
		Place telephone / cable circular box	1	1	$\frac{3}{2}$		
	D. 6.	Place MCB box					
	D. 7.	Place DP (double pole) box	1	1	2		
	D. 8.		1	1	2		
E		eck electrical items / accessories					
	E. 1.	Fit round plate/block	1	1	2		
	E. 2.	Fit/Check holder	1	1	2		
	E. 3.	Fit/Check ceiling rose	1	1	2		
	E. 4.	Fit/Check switch	1	1	2		
	E. 5.	Fit fuse	1	1	2		
	E. 6.	Fit/Check indicator	1	1	2		
	E. 7.	Fit two pin socket	1	1	2		
	E. 8.	Fit five pin socket	1	1	2		
	E. 9.	Fit/Check two way switch	1	1	2		
	E. 10.		1	1	2		
	E. 11.	Fit/Check diameter switch	1	1	2		
	E. 12.	Fit/Check intermediate /cross switch	1	1	2		
	E. 13.	Fit/Check combine power switch socket	1	1	2		
	E. 14.	Fit telephone /TV socket	1	1	2		

Summary of Duties and Competencies

S. No		Т	'ime (in h	rs.)
S. No	Duties and Competencies/Tasks/Skills	Th.	Prac.	Total
	E. 15. Fit bell	1	1	2
	E. 16. Fit show light	1	1	2
	E. 17. Fit tube light	1	1	2
	E. 18. Fit dome light	1	1	2
	E. 19. Fit/check MCB	1	1	2
	E. 20. Fit main switch	1	1	2
	E. 21. Fit change over	1	1	2
	E. 22. Fit Fan (ceiling / exhaust / wall)	1	1	2
	E. 23. Fit/ check running changeover	1	1	2
	E. 24. Fit gate light/ garden light	1	1	2
	E. 25. Fix sub-meter	1	1	2
F.	Assist to perform earthing			
	F. 1. Dig pit.	1	2	3
	F. 2. Put earthing (copper other) plate		2	3
	F. 3. Connect copper wire	1	2	3
	F. 4. Put charcoal			3
	F. 5. Put salt			3
	F. 6. Put lime			3
	F. 7. Put concrete			3
				3
				3
0	F. 9. Fill up pit with soil	1	2	3
G.	Assist to check power supply	1	2	4
	G. 1. Check phase line			4
	G. 2. Check earthing line			4
	G. 3. Check telephone line			4
	G. 4. Check cable line			4
	G. 5. Check voltage			3
	G. 6. Check earth linkage	l	2	3
H.	Assist to perform repair/maintenance	over11iling / exhaust / wall)11running changeover11ht/ garden light11eter11earthing12g (copper other) plate12opper wire12al12te12copper wire12al12te12copper wire12al12te12copper wire12al12te12copper wire12al12te12te12with soil12wer supply	-	
	H. 1. Replace tube light			3
	H. 2. Replace holder			3
	H. 3. Replace bulb			3
	H. 4. Replace switch			3
	H. 5. Replace fuse			3
	H. 6. Replace indicator			3
	H. 7. Replace power socket			3
	H. 8. Replace TV socket			3
	H. 9. Replace telephone socket			3
	H. 10. Replace ceiling rose	1	2	3
Ι.	Communicate with others			
	I. 1. Communicate with electricians.			3
	I. 2. Communicate with client.	1		3
	I. 3. Communicate with employer.	1	2	3
	I. 4. Communicate with colleagues.	1		3
	I. 5. Communicate with supervisor.	1		3
	I. 6. Communicate with supplier.	1	2	3
	I. 7. Communicate with visitor.	1	2	3

C N		T	'ime (in h	nrs.)
S. No	Duties and Competencies/Tasks/Skills	Skills Th. Prac. 1 2	Total	
	I. 8. Communicate with junior.	1	2	3
	I. 9. Communicate with electrical shops.	1	2	3
	I. 10. Receive telephone call.	1	2	3
J.	Grow professionalism.			
	J. 1. Consult electricians.	1	2	3
	J. 2. Visit equipped working places/sights.	1	3	4
	J. 3. Read related materials (Documents, manuals,	1	3	4
	brochures etc.).J. 4.Seek trainings places /programs.	1	4	5
	J. 5. Attend training/ seminar/workshops.	1	2	3
	J. 6. Watch Audio-Visual.	1	2	3
	J. 7. Browse World Wide Web.	1	2	3
	Total	92	180	272

C N-	Competencies		Related Technical	Time (in hrs.)		
S. No	Competencies		Knowledge	Th.	Prac.	Total
1.	Assist in layout		Introduction to circuit route	1	3	4
			plan, lighting plan and layout			
			system			
			Procedures for marking			
			locations.			
			Safety precautions.			
2.	Fix circular box in ceiling		Types of circular box.	1	3	4
	center	\square	Procedures for marking			
			locations.			
			Safety precautions.			
3.	Divide pipe as required	\square	Size (length and diameter) of	1	3	4
			conduit for placing wires.			
			Safety precautions.			
4.	Put pipe for		Size (length and diameter) of	1	3	4
	telephone/cable		conduit for placing wires.			
			Safety precautions.			
5.	Put pipe for mainline		Size (length and diameter) of	1	3	4
			conduit for placing wires.			
			Safety precautions.			
6.	Put GI pipe for gate light		Size (length and diameter) of	1	3	4
			GI pipe for placing wires.			
		\square	Safety precautions.			

Duty 1: Assist to layout pipe in concrete.

Duty 2: Prepare surface for wiring.

S. No	Competencies		Related Technical	Ti	me (in h	rs.)
5. NU	Competencies		Knowledge	Th.	Prac.	Total
1.	Chip wall.		Chisels handling technique.	1	6	7
			Safety precautions.			
2.	Put/ Fix pipe	$ \land $	Procedures of fixing PVC and	1	3	4
			Metal conduit.			
			Safety precaution.			
3.	Put/ Fix Junction band	\square	Various sizes of junction	1	2	3
			band.			
			Procedures of fixing PVC and			
			Metal conduit.			
			Safety precaution.			
4.	Put/ Fix Pipe for		Procedures of fixing PVC and	1	3	4
	telephone/cable in wall		Metal conduit.			
			Safety precaution.			
5.	Put/ Fix wooden plastic	\square	Types and sizes of wooden /	1	3	4
	bed		plastic bed.			
			Safety precaution.			

C N-			Related Technical	Ti	me (in h	nrs.)
S. No	Competencies		Knowledge	Th.	Prac.	Total
1.	Check wire gauge /	\square	Measuring gauge and it	1	3	4
	continuity.		handling			
		\square	Units and dimensions.			
		\square	Conversion of measurements.			
		\square	Wire gauge charts and			
			Current Carrying Capacity			
			chart and their uses.			
		\square	Safety precautions.			
2.	Put earthing supply wire.		Importance of earthing.	1	3	4
		\square	Types of earth electrodes			
		\square	Procedure.			
		\square	Colour codes.			
		\square	Methods of obtaining low			
			earth resistance.			
		-	Safety precautions.			
3.	Put circuit wire (half wire).	\square	Various circuits (distribution,	1	3	4
			sub distribution and branch			
			circuits).			
			Safety precautions.			
4.	Place telephone wire.	\square	Circuit diagram and graphic	1	2	3
			information.			
		\square	Telephone wire placement			
			procedure.			
		\square	Safety precautions.			
5.	Place cable wire.		Wire for various appliances.	1	2	3
		\square	Safety precautions.			
6.	Put main supply wire	\square	Main supply wire.	1	2	3
			Service main			
		\square	Safety precautions.			

Duty 3: Assist to place wire.

Duty 4: Assist to place board/box.

S. No	Competencies	Related Technical		Time (in hrs.)		
5. INO	Competencies	Knowledge	Th.	Prac.	Total	
1.	Place switch box.		1	2	3	
		specification.				
		Selection of different sizes				
		and shapes of switch boxes.				
		Placing procedure.				
		□ Safety precautions.				
2.	Place Holder box.	\square Type of mounting boxes for	1	2	3	
		installing various lighting				
		fixtures.				
		Placing procedure.				
		□ Safety precautions.				

C No	Competencies		Related Technical	Ti	me (in h	nrs.)
S. No	Competencies		Knowledge	Th.	Prac.	Total
3.	Place Power box.	\square	Selection of power socket	1	2	3
			mounting boxes.			
			Placing procedure.			
		\square	Safety precautions.			
4.	Place telephone box.		Selection, types and use of	1	2	3
			telephone plug mounting			
			boxes.			
			Placing procedure.			
			Safety precautions.			
5.	Place telephone / cable		Selection and the knowledge	1	2	3
	circular box.		of types and use of telephone			
			/cable plug mounting boxes.			
			Placing procedure.			
			Safety precautions.			
6.	Place MCB box.		Single phase and three phase	1	2	3
			MCBs and the corresponding			
			mounting boxes.			
			The conductors permitted in			
			the box.			
			Placing procedure.			
			Safety precautions.			
7.	Place DP (double pole)		Different types and size of	1	2	3
	box		DP box.			
			Placing procedure.			
			Safety precautions.			
8.	Place meter box.		Different types of meter box	1	2	3
			Installation procedure.			
		\square	Safety precautions.			

Duty 5: Fit/check electrical items/accessories

S. No	Compotonoios	Related Technical	Tiı	ne (in h	rs.)
5. NO	Competencies	Knowledge	Th.	Prac.	Total
1.	Fit round plate/block.	Different types of accessories	1	1	2
		and fittings,			
		☑ Selection of required types.			
		☐ Standard wiring regulations.			
		Procedure.			
		☐ Safety precautions.			
2.	Fit/Check holder.	☑ Selection of required types.	1	1	2
		☐ Standard wiring regulations.			
		Procedure.			
		□ Safety precautions.			
3.	Fit/Check ceiling rose	☑ Selection of required types.	1	1	2
		☐ Standard wiring regulations.			
		□ Fixing procedures of ceiling			
		rose in joists and concrete.			

S. No	Competencies		Related Technical		Time (in hrs.)		
5. NO	Competencies		Knowledge	Th.	Prac.	Total	
		\square	Safety precautions.				
4.	Fit/Check switch		Fixing procedures of different	1	1	2	
			types switches.				
			Methods of wiring and				
			necessary connection.				
		-	Safety precautions.				
5.	Fit fuse		Principles of over current and	1	1	2	
			earth fault protection.				
			Different types and ratings of				
			fuses,				
			Circuit breakers.				
6.	Fit/Check indicator		Introduction to and use of	1	1	2	
			indicators.				
			Fitting procedure.				
		-	Safety precautions.				
7.	Fit two pin socket		Uses of two-pin socket.	1	1	2	
			Fitting procedure.				
			Safety precautions.	4			
8.	Fit five pin socket		Uses of five-pin socket.	1	1	2	
			Fitting procedure.				
			Safety precautions.	4			
9.	Fit/Check two way switch		Uses of two-way switch.	1	1	2	
			Fitting procedure.				
10			Safety precautions.				
10.	Fit/Check bell push switch		Uses of bell push switch.	1	1	2	
			Fitting procedure.				
11			Safety precautions.	1	1	2	
11.	Fit/Check diameter switch		Uses of diameter switch.	1	1	2	
			Fitting procedure.				
10			Safety precautions.	1	1	2	
12.	Fit/Check intermediate /cross switch		Uses of intermediate/cross	1	1	2	
	/cross switch		socket.				
			Fitting procedure.				
12	Eit/Chash someting norman	-	Safety precautions.	1	1	2	
13.	Fit/Check combine power switch socket		Uses of power switch socket. Loading of main and sub-	1	1	2	
	Switch socket		circuit (simple concept only)				
			Fitting procedure.				
			Safety precautions.				
14.	Fit telephone /TV socket	-	Methods of fitting telephone /	1	1	2	
14.	The telephone / T V Socket		TV socket	1	1	2	
			Safety precautions.				
15.	Fit bell.	-	Methods of arranging and	1	1	2	
15.			laying out in coming and	1		-	
			outgoing cables / wires				
			Checking procedures such as				
		l Cl	cheeking procedures such as	1	1	1	
			the bell, the button, the wires				

S. No	Competencies		Related Technical		me (in l	rs.)
5.110	Competencies		Knowledge	Th.	Prac.	Total
			applied).			
			Safety precautions.			
16.	Fit show light		Uses of show light	1	1	2
			Methods of fitting.			
		\square	Safety precautions.			
17.	Fit tube light		Uses of fluorescent lamps.	1	1	2
			Types of fluorescent lights			
			(preheated, rapid stat, instant			
			start).			
			Safety precautions.			
18.	Fit dome light		Use of different dome light.	1	1	2
			Types of dome lights.			
			Fixing procedure.			
10			Safety precautions.			
19.	Fit/check MCB		Introduction and importance	1	1	2
			of MCB (simple concept			
		_	only).			
			Use of protective breakers for			
		_	the safe carrying of current.			
			Identification of circuits in			
		_	the service panel.			
			Circuit Load Calculation			
		_	(optional).			
			Fixing procedure.			
20.	Fit main switch		Safety precautions. Fuse cement ratings for main	1	1	2
20.	Fit main switch		switch, main circuit and sub	1	1	2
			circuits.			
			Methods of connecting main			
			switch.			
			Methods of checking phase			
			sequence in the main switch.			
			Safety precautions.			
21.	Fit change over		Uses of changeover switch.	1	1	2
21.	i it change over		Methods of connection to the	1	1	-
			terminal points.			
			Safety precautions.			
22.	Fit Fan (ceiling / exhaust /		Selection fan (size and power	1	1	2
	wall)		rating).			
			resistance.			
23.	Fit/ check running		Methods of testing	1	1	2
	changeover		changeover switch and their			
			connection procedure.			
			Safety precautions.			
24.	Fit gate light/ garden light		Uses of gate / entrance and	1	1	2
			the garden light.			
			Fixing procedure.			

S. No	Competencies		Related Technical	Ti	me (in h	rs.)
5.110	Competencies		Knowledge	Th.	Prac.	Total
		\square	Safety precautions.			
25.	Fix sub-meter		Importance and purpose of installing sub meter in a	1	1	2
			rented, multi-storey house			
			and also in the commercial			
			building.			
		\square	Importance of periodically			
			monitoring the condition of			
			sub- meter installed in			
			different room / apartments.			
			Fixing procedure.			
		\square	Safety precautions.			

Duty 6: Assist to perform earthing.

S. No	Competencies		Related Technical	Time (in hrs.)		
5. NO	Competencies		Knowledge	Th.	Prac.	Total
1.	Dig pit.	Ŋ	Workplace cleaning at the site.	1	2	3
			Tools for digging pits, holes			
			and trenches (pick and shovel etc.).			
			Measuring the size			
			(dimension) of the pit (Length, Breadth and Depth)			
2.	Put earthing (copper other) plate.		Pipe earthing and its specification.	1	2	3
			Procedure for placing copper and other plate.			
			Lists of material required for different methods for			
			earthing.			
3.	Connect copper wire.		Wiring procedure.	1	2	3
			Specification of copper wire for earthing.			
4.	Put charcoal.		Methods of filling charcoal around the pit of each electrode.	1	2	3
5.	Put salt.		Methods of pouring salt around the earth pit.	1	2	3
6.	Put lime.		Methods of pouring time into he plate area and depth of embedding.	1	2	3
7.	Put concrete.		Methods of constructing concrete caisson around the pit.	1	2	3
8.	Put GI/PVC pipe.	\square	Selection of correct size of GI	1	2	3

S. No	Competencies	Related Technical	Ti	me (in h	rs.)
5.110		Knowledge	Th.	Prac.	Total
		/ PVC pipe.			
		\square Importance of covering the			
		earthing wires.			
9.	Fill up pit with soil.	☐ Methods of filling up pit with	1	2	3
		soil.			

Duty 7: Assist to check power supply

S. No	Competencies	Related Technical	Time (in hrs.)		
5. NO	Competencies	Knowledge	Th.	Prac.	Total
1.	Check phase line	 Methods of checking phase line of the supply main. Testing of polarity of single pole switches with small neon tube tester lamp. 	1	3	4
2.	Check earthing line	Methods of checking earthing line by applying of testing of earth continuity path and testing of earth resistance and using Megger.	1	3	4
3.	Check telephone line	 Methods of checking telephone line by applying of testing of earth continuity path and testing of earth resistance and using Megger. 	1	3	4
4.	Check cable line	 Refer task 3. Removing all links before reinstating the supply when carrying up the polarity test in lighting circuit Follow the sequences provided below. Removing all loads. Ensuring isolation. Placing links in circuit. Insulation continuity tester and measure ohms zero instrument. Placement of instrumentation in the circuit. Switching ON & OFF. Taking readings and recording. 	1	3	4
5.	Check voltage	 Importance of checking voltage line and voltage of incoming and outgoing 	1	2	3

S. No	Competencies	Related Technical	Time (in hrs.)		
5.110	Competencies	Knowledge	Th.	Prac.	Total
		 supply to various circuits of sub circuits / branch circuits. Methods of checking incoming / outgoing protective and indicating devices for correct operation and function. 			
6.	Check earth linkage	 Importance of checking earth linkage in panels and outgoing circuits and earth electrode resistance. 	1	2	3

Duty 8: Assist to perform repair/maintenance.

S. No.	Competencies	Related Technical	Time (in hrs.)		
S. No		Knowledge	Th.	Prac.	Total
1.	Replace tube light	\square Location of fault such as	1	2	3
		defective contacting lamp			
		holder, starter, loose contact			
		in the starter and tube holder			
		and			
		Methods of replacing new			
		tube light.			
2.	Replace holder	□ Fault finding technique	1	2	3
		\square Methods of replacing tube			
		and starter holders.			
3.	Replace bulb	Fault finding technique	1	2	3
		☑ Methods of replacing lamp			
		holder.			
4.	Replace switch.	☑ Operational function of	1	2	3
		control devices			
		□ Fault finding technique			
		\square Methods of replacing switch.			
5.	Replace fuse.	\square Fuse types and ratings.	1	2	3
		☐ Importance of installing rated			
		fuses			
		\square Malfunctioning of fuses.			
		\square Methods of replacing fuses.			
6.	Replace indicator.	☐ Importance of checking	1	2	3
		indicating devices.			
		\square Methods of replacing			
		indicator.			_
7.	Replace power socket	\square Importance of checking the	1	2	3
		terminal pins of the power			
		socket			
		□ Replacing technique in case			
		of malfunctioning/ pin burnt			

S. No	Competencies	Related Technical	Time (in hrs.)		
5. NO		Knowledge	Th.	Prac.	Total
		out.			
8.	Replace TV socket	 Importance of checking the terminal pins of the telephone socket Replacing technique in case of malfunctioning/ pin burnt out. 	1	2	3
9.	Replace telephone socket	 Importance of checking the terminal pins of the telephone socket Replacing technique in case of malfunctioning/ pin burnt out. 	1	2	3
10.	Replace ceiling rose	 Importance of checking the terminal pins of the ceiling rose. Replacing technique in case of malfunctioning/ pin burnt out. 	1	2	3

Duty 9: Communicate with others

S. No	Competencies	Related Technical	Time (in hrs.)		
5. NO		Knowledge	Th.	Prac.	Total
1.	Communicate with electricians.	 Meaning and importance of communication. Type of communication (oral, sign/gesture and written). Oral communication techniques. Communication for cooperative/collaborative tasks. Learning and information sharing. Prior consultation on assigned work with the seniors. 	3	3	6
		 Uses of appropriate communication language (with higher and lower position staffs.) 			
2.	Communicate with client.	Importance of listening and viewing the client's opinions (offering opinions, supporting statement and questions and clarification of the proposed job).	1	2	3

S No	Competencies	Related Technical	Time (in hrs.)			
S. No		Knowledge	Th.	Prac.	Total	
3.	Communicate with	\square Refer to task 2	1	2	3	
	employer.					
4.	Communicate with	☐ Importance of interpretation	1	2	3	
	colleagues.	and explanation of the				
		proposed job with friends.				
5.	Communicate with	□ Refer to task 1	1	2	3	
	supervisor.					
6.	Communicate with	□ Refer to task 2	1	2	3	
	supplier.					
7.	Communicate with visitor.	\square Refer to task 2	1	2	3	
8.	Communicate with junior.	□ Refer to task 4	1	2	3	
9.	Communicate with	\square Demand and supply order.	1	2	3	
	electrical shops.	🖂 Bill / invoice.				
		☐ Material supply and delivery.				
10.	Receive telephone call.	☐ Meaning, importance and	1	2	3	
		purpose of telephone				
		□ Telephone receiving				
		technique				
		□ Etiquette of receiving				
		telephone call.				
		☐ Massage writing technique				

Duty 10: Grow professionalism.

S. No	Competencies	Related Technical	Time (in hrs.)		
5. NO		Knowledge	Th.	Prac.	Total
1.	Consult electrician.	 Importance of participating in career exploration activities with the senior electricians. 	1	2	3
2.	Visit other's working place/ sight.	 Importance of learning from different workplaces and site visits. 	1	3	4
3.	Read related materials (Documents, manuals, brochures)	 Importance of learning from trade relevant documents, manuals and other job related sheets. 	1	3	4
4.	Attend training/ seminar/workshops	 Need of growing professionalism. Importance of career development opportunities inside and outside the organization. 	1	4	5
5.	Watch Audio/Visual.	 □ Familiarization of TVs channel/A/V aids. □ Importance of leaning from A/V. 	1	2	3
6.	Browse World Wide Web.	□ Familiarization with	1	2	3

S. No	Competencies	Related Technical	Time (in hrs.)		
5.110	Competencies	Knowledge	Th.	Prac.	Total
		computer.			
		☐ WWW browsing techniques.			
7.	Seek trainings places /	☐ Importance of trainings in	1	2	3
	programs	career development.			
	r - 0	Possible training			
		providers/institutes for			
		refresher trainings.			