

# **Program Guide**

for

## **Cycle and *Riksa* Mechanic**

*A short term Apprenticeship Curriculum  
for  
International Labour Organisation/ Time Bound Program  
and  
World Education/Brighter Future Project*



Council for Technical Education and Vocational Training  
**CURRICULUM DEVELOPMENT DIVISION**  
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## **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 raggickers, 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 well-defined 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 repair wheel systems,
- to repair fork and handle systems,
- to repair pulling systems,
- to repair body system of *Riksa*, and
- to perform denting and painting works.

### Course description

This course is designed to help the apprentices to provide basic knowledge and skills on repairing and maintenance of bicycle and tri-cycle. The apprentices will develop their competencies working in the bicycle workshop in an unstructured way. This course especially provides skills focusing on repairing of wheel, fork and handle, pulling and body system. This course also provides skills about denting and painting works related to bicycle and *Riksa*.

### 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.

<b>S.No.</b>	<b>Name of the tools/equipment</b>	<b>Units</b>
	Screw driver (6 to 18 No.)	
	Hammer	
	Dial wrench (7 to 18 No.)	
	Spoke wrench	
	Blade wrench	
	Slide wrench (10 to 18 No.)	
	Pana wrench (6 to 17 No.)	
	L - wrench	
	Clamp	
	Plaiar	
	Summa (4 to 8 inch)	
	Hack saw blade	
	Scissor	
	To pan	
	Round clamp	
	Drill	
	Air pump	
	Dial machine	
	Die set	

## Summary of Duties and Competencies

S. No	Duties and Competencies/Tasks/Skills	Time (in hours)		
		Th.	Prac.	Total
<b>A.</b>	<b>Repair wheel systems</b>			
	A.1. Fill air	1	2	3
	A.2. Replace valve (vel) tube	1	3	4
	A.3. Repair minor puncture	1	3	4
	A.4. Repair major puncture	1	4	5
	A.5. Repair tyre bedding gutter	1	2	3
	A.6. Stitch tyre	1	3	4
	A.7. Replace tyre	1	4	5
	A.8. Adjust ring washer		2	2
	A.9. Replace wheel ring	1	2	2
	A.10. Straighten wheel ring	1	3	4
	A.11. Fit spoke	1	3	4
	A.12. Replace metal washer safety / Nipple	1	2	3
	A.13. Maintain / repair / replace hum	1	2	3
	A.14. Repair / Replace ball bearing	1	2	3
	A.15. Replace / Repair hub axle (dhura)	1	2	3
	A.16. Replace bush bearing	1	2	3
<b>B.</b>	<b>Repair fork and handle systems</b>			
	B.1. Adjust handle	1	2	3
	B.2. Repair / Replace bell	1	2	3
	B.3. Adjust brake	1	3	4
	B.4. Replace brake clip		2	2
	B.5. Replace brake shoe / rubber	1	2	3
	B.6. Adjust frame	1	2	3
	B.7. Repair / Replace ball / balesar	1	2	3
	B.8. Adjust fork	1	2	3
	B.9. Repair / Replace balesar related to fork	1	2	3
	B.10. Repair / Replace lock	1	3	4
	B.11. Adjust / Repair / Replace seat / seat pillar	1	2	3
	B.12. Repair / replace ball related to fork	1	2	3
	B.13. Fit front wheel	1	3	4
<b>C.</b>	<b>Repair pulling systems</b>			
	C.1. Repair / replace paddle gear crane	1	3	4
	C.2. Repair / Replace B.B. set	1	2	3
	C.3. Repair <i>kutta</i> / ball / spring of free wheel	1	2	3
	C.4. Replace free wheel set	1	2	3
	C.5. Adjust chain	1	2	3
	C.6. Replace chain	1	4	5
	C.7. Repair / replace peddle set / peddle	1	2	3
	C.8. Adjust / repair chain cover		2	2
	C.9. Replace free wheel teeth	1	2	3
	C.10. Adjust / repair mudguard	1	2	3
	C.11. Adjust / repair carrier	1	3	4
	C.12. Repair / replace cycle stand	1	2	3

S. No	Duties and Competencies/Tasks/Skills	Time (in hours)		
		Th.	Prac.	Total
	C.13. Repair / replace gear cycle gear	1	3	4
<b>D.</b>	<b>Repair body systems (Tricycle, <i>Riksa</i>)</b>			
	D.1. Adjust / repair angle	1	2	3
	D.2. Adjust / repair kamani	1	3	4
	D.3. Adjust / repair angles supporter	1	3	4
	D.4. Adjust / repair / replace long rod, (Dhura	1	3	4
	D.5. Adjust / Replace bearing / bearing box	1	3	4
	D.6. Adjust / Replace nuts & bolts	1	3	4
	D.7. Adjust / repair / replace riksa body seat	1	2	3
	D.8. Adjust / repair / replace body	1	3	4
<b>E.</b>	<b>Perform denting/painting works</b>			
	E.1. Disassemble cycle / <i>riska</i> parts	1	2	3
	E.2. Wash cycle <i>riksa</i>		2	2
	E.3. Remove old painting	1	3	4
	E.4. Apply sand paper	1	2	3
	E.5. Apply putting on joints / holes	1	2	3
	E.6. Apply primer (Iron oxide).	1	3	4
	E.7. Apply final paint.	1	3	4
	E.8. Perform decorating works.	1	3	4
<b>F.</b>	<b>Communicate with other</b>			
	F.1. Communicate with senior cycle mechanics	1	2	3
	F.2. Communicate with client.	1	2	3
	F.3. Communicate with employer.	1	2	3
	F.4. Communicate with colleagues.	1	2	3
	F.5. Communicate with supervisor.	1	2	3
	F.6. Communicate with supplier.	1	2	3
	F.7. Communicate with visitor.	1	2	3
	F.8. Communicate with junior.	1	2	3
	F.9. Communicate with Cycle and Riksa parts shops.	1	2	3
	F.10. Receive telephone call.	1	2	3
<b>G.</b>	<b>Grow professionalism</b>			
	G.1. Consult senior cycle mechanics	1	2	3
	G.2. Visit equipped working places/sights	1	3	4
	G.3. Read related materials (Documents, manuals, brochures etc.)	1	3	4
	G.4. Seek trainings places /programs	1	4	5
	G.5. Attend training/ seminar/workshops	1	2	3
	G.6. Watch Audio-Visual.	1	2	3
	G.7. Browse World Wide Web.	1	2	3
	<b>Total</b>	<b>71</b>	<b>159</b>	<b>230</b>

**Duty 1: Repair wheel systems.**

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Fill air.	<input type="checkbox"/> Introduction of Air tight <input type="checkbox"/> Air leakage and puncture. <input type="checkbox"/> Filling procedure <input type="checkbox"/> Safety precaution	1	2	3
2.	Replace valve (vel) tube.	<input type="checkbox"/> Introduction and importance of valve, rubber, seal, glue (adhesive). <input type="checkbox"/> Replacing procedure. <input type="checkbox"/> Safety precaution.	1	3	4
3.	Repair minor puncture.	<input type="checkbox"/> Different between minor and major puncture. <input type="checkbox"/> Identification of minor puncture. <input type="checkbox"/> Materials and accessories for puncture repair <input type="checkbox"/> Nature of minor puncture <input type="checkbox"/> Patching technique. <input type="checkbox"/> Safety precaution.	1	3	4
4.	Repair major puncture.	<input type="checkbox"/> Identification, size and nature of major puncture. <input type="checkbox"/> Patching technique <input type="checkbox"/> Safety precaution.	1	4	5
5.	Repair tyre bedding gutter.	<input type="checkbox"/> Introduction and importance of gutter. <input type="checkbox"/> Bedding gutter size. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	2	3
6.	Stitch tyre.	<input type="checkbox"/> Importance of stitching <input type="checkbox"/> Purpose and size of stitching. <input type="checkbox"/> Method of stitching. <input type="checkbox"/> Care of tyre. <input type="checkbox"/> Stitching technique <input type="checkbox"/> Safety precaution	1	3	4
7.	Replace tyre.	<input type="checkbox"/> Importance and identification of tyre <input type="checkbox"/> Tyre type, size and rating. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution	1	4	5
8.	Adjust ring washer.	<input type="checkbox"/> Importance and identification of ring washer <input type="checkbox"/> Type and size of ring washer		2	2

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
		<input type="checkbox"/> Adjustment procedure <input type="checkbox"/> Safety precaution <input type="checkbox"/>			
9.	Replace wheel ring (rim).	<input type="checkbox"/> Importance and identification of wheel ring. <input type="checkbox"/> Ring size <input type="checkbox"/> Replacement procedure. <input type="checkbox"/> Safety precaution.	1	2	2
10.	Straighten wheel ring.	<input type="checkbox"/> Ring straightening technique <input type="checkbox"/> Safety precaution.	1	3	4
11.	Fit spoke.	<input type="checkbox"/> Importance of spoke adjustment. <input type="checkbox"/> Identification and function of spoke. <input type="checkbox"/> Fitting procedure. <input type="checkbox"/> Safety precaution.	1	3	4
12.	Replace metal washer safety / Nipple.	<input type="checkbox"/> Importance and identification of metal washer safety <input type="checkbox"/> Function of metal washer safety. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	2	3
13.	Maintain / repair / replace hub.	<input type="checkbox"/> Importance and identification of hub <input type="checkbox"/> Function of hub <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution	1	2	3
14.	Repair / Replace ball bearing.	<input type="checkbox"/> Importance and identification of ball bearing. <input type="checkbox"/> Bearing type and size. <input type="checkbox"/> Worn check up. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	2	3
15.	Replace / Repair hub axle ( <i>dhura</i> ).	<input type="checkbox"/> Importance and identification of hub axle <input type="checkbox"/> Function of hub axle <input type="checkbox"/> Procedure <input type="checkbox"/> Safety precaution.	1	2	3
16.	Replace bush bearing.	<input type="checkbox"/> Importance and identification of bush bearing <input type="checkbox"/> Function of bush bearing. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	2	3

**Duty 2: Repair fork and handle systems.**

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Adjust handle.	<input type="checkbox"/> Importance and identification of handle. <input type="checkbox"/> Function of handle. <input type="checkbox"/> Straightness and tilting method. <input type="checkbox"/> Adjustment procedure. <input type="checkbox"/> Safety precaution.	1	2	3
2.	Repair / Replace/adjust bell.	<input type="checkbox"/> Importance and identification of bell. <input type="checkbox"/> Function of bell. <input type="checkbox"/> Bell adjustment technique. <input type="checkbox"/> Safety precaution.	1	2	3
3.	Adjust brake.	<input type="checkbox"/> Importance and identification of brake its parts <input type="checkbox"/> Type and function of brake <input type="checkbox"/> Brake components and checking of wearness <input type="checkbox"/> Trouble shooting <input type="checkbox"/> Brake adjustment technique. <input type="checkbox"/> Safety precaution.	1	3	4
4.	Replace brake clip.	<input type="checkbox"/> Importance and identification of brake clip <input type="checkbox"/> Types and of screw used <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.		2	2
5.	Replace brake shoe / rubber.	<input type="checkbox"/> Importance and identification of brake pad <input type="checkbox"/> Size of brake pad/ rubber. <input type="checkbox"/> Pad adjustment technique <input type="checkbox"/> Safety precaution.	1	2	3
6.	Adjust frame.	<input type="checkbox"/> Importance and identification of frame. <input type="checkbox"/> Function of frame. <input type="checkbox"/> Adjustment technique. <input type="checkbox"/> Safety precaution.	1	2	3
7.	Repair / Replace ball / ball race.	<input type="checkbox"/> Importance and identification of ball	1	2	3

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
		and ball race. <input checked="" type="checkbox"/> Ball size and number. <input checked="" type="checkbox"/> Function of ball and lubrication <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.			
8.	Adjust fork.	<input checked="" type="checkbox"/> Importance and identification of fork. <input checked="" type="checkbox"/> Function of fork. <input checked="" type="checkbox"/> Fork standard (size, height and spring) <input checked="" type="checkbox"/> Adjustment procedure <input checked="" type="checkbox"/> Safety precaution.	1	2	3
9.	Repair / Replace ball race related to fork.	<input checked="" type="checkbox"/> Function of ball race <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	2	3
10.	Repair / Replace lock.	<input checked="" type="checkbox"/> Importance and identification of lock. <input checked="" type="checkbox"/> Function and type of lock. <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	3	4
11.	Adjust / Repair / Replace seat / seat pillar.	<input checked="" type="checkbox"/> Importance and identification of seat <input checked="" type="checkbox"/> Purpose of seat. <input checked="" type="checkbox"/> Types and size of seat <input checked="" type="checkbox"/> Adjustment procedure <input checked="" type="checkbox"/> Safety precaution	1	2	3
12.	Repair / replace ball related to fork.	<input checked="" type="checkbox"/> Importance and identification of ball <input checked="" type="checkbox"/> Function of ball. <input checked="" type="checkbox"/> Size and number. <input checked="" type="checkbox"/> Lubricants used <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	2	3
13.	Fit front wheel.	<input checked="" type="checkbox"/> Importance and identification of wheel components. <input checked="" type="checkbox"/> Fitting procedure. <input checked="" type="checkbox"/> Safety precaution.	1	3	4

### Duty 3: Repair pulling systems.

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Repair / replace paddle gear crank.	<input checked="" type="checkbox"/> Importance and identification of gear	1	3	4

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
		crank. <input checked="" type="checkbox"/> Construction of gear crank <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.			
2.	Repair / Replace Ball Bearing set	<input checked="" type="checkbox"/> Importance and identification of ball bearing set <input checked="" type="checkbox"/> Types and size of bearing <input checked="" type="checkbox"/> Lubricants used <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	2	3
3.	Repair <i>kutta</i> / ball / spring of free wheel	<input checked="" type="checkbox"/> Importance and identification ball and spring of free wheel. <input checked="" type="checkbox"/> Components of free wheel set. <input checked="" type="checkbox"/> Function and types of wheel. <input checked="" type="checkbox"/> Procedure <input checked="" type="checkbox"/> Safety precaution.	1	2	3
4.	Replace free wheel set	<input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	2	3
5.	Adjust chain	<input checked="" type="checkbox"/> Importance and identification of chain <input checked="" type="checkbox"/> Chain links and size. <input checked="" type="checkbox"/> Chain cutting (concept only) <input checked="" type="checkbox"/> Chain adjustment procedure. <input checked="" type="checkbox"/> Safety precaution.	1	2	3
6.	Replace chain	<input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	4	5
7.	Repair / replace peddle set / peddle	<input checked="" type="checkbox"/> Importance and identification of pedal. <input checked="" type="checkbox"/> Components of pedal set <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.	1	2	3
8.	Adjust / repair chain cover	<input checked="" type="checkbox"/> Importance and identification of chain cover <input checked="" type="checkbox"/> Types of chain cover. <input checked="" type="checkbox"/> Procedure. <input checked="" type="checkbox"/> Safety precaution.		2	2
9.	Replace free wheel teeth	<input checked="" type="checkbox"/> Importance and identification of wheel	1	2	3

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
		teeth. <input type="checkbox"/> Function of free wheel. <input type="checkbox"/> Replacement procedure. <input type="checkbox"/> Safety precaution.			
10.	Adjust / repair mudguard	<input type="checkbox"/> Importance and identification of mudguard. <input type="checkbox"/> Function of mudguard. <input type="checkbox"/> Adjustment procedure. <input type="checkbox"/> Safety precaution.	1	2	3
11.	Adjust / repair carrier	<input type="checkbox"/> Importance and identification of carrier. <input type="checkbox"/> Size and types of carrier. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4
12.	Repair / replace cycle stand	<input type="checkbox"/> Importance and identification of stand. <input type="checkbox"/> Function, types (side or center stand). <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	2	3
13.	Repair / replace gear cycle gear	<input type="checkbox"/> Importance and identification of gear. <input type="checkbox"/> Gear type cycle (concept only) and its components. <input type="checkbox"/> Function of gear. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4

#### Duty 4: Repair body systems (Tricycle, *Riksa*)

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Adjust / repair angle.	<input type="checkbox"/> Importance and identification of angle. <input type="checkbox"/> Size and types of angle. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution..	1	2	3
2.	Adjust / repair kamani.	<input type="checkbox"/> Importance, identification and purpose of kamani. <input type="checkbox"/> Adjustment procedure <input type="checkbox"/> Safety precaution.	1	3	4

3.	Adjust / repair angles supporter	<input type="checkbox"/> Importance and identification of angle supporter. <input type="checkbox"/> Function of supporter. <input type="checkbox"/> Materials used in supporter. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4
4.	Adjust / repair / replace long rod, (Dhura)	<input type="checkbox"/> Importance and identification of dhura/axle <input type="checkbox"/> Function of dhura. <input type="checkbox"/> Run out check up <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4
5.	Adjust / Replace bearing / bearing box	<input type="checkbox"/> Importance and identification of bearing. <input type="checkbox"/> Size and number of bearing. <input type="checkbox"/> Parts of bearing box. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4
6.	Adjust / Replace nuts & bolts	<input type="checkbox"/> Importance and identification of nuts and bolts <input type="checkbox"/> Size and types. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4
7.	Adjust / repair / replace riksa body seat	<input type="checkbox"/> Importance and identification of seat materials. <input type="checkbox"/> Seat base and other parts <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	2	3
8.	Adjust / repair / replace body	<input type="checkbox"/> Importance and identification of body and cover. <input type="checkbox"/> Materials used in body. <input type="checkbox"/> Procedure. <input type="checkbox"/> Safety precaution.	1	3	4

**Duty 5: Perform denting/painting works.**

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Disassemble cycle / <i>riska</i>	<input type="checkbox"/> Importance and	1	2	3

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
	parts	identification of various parts of riska. ☒ Function of each parts			
2.	Wash cycle/ <i>riksha</i>	☒ Washing procedure ☒ Safety rules		2	2
3.	Remove old painting	☒ Importance of new paint. ☒ Tools and materials used in removing old paint. ☒ Procedure. ☒ Safety precaution.	1	3	4
4.	Apply sand paper	☒ Importance and identification of sand paper. ☒ Types of sand and emery paper. (Coarse, medium and fine) ☒ Procedure. ☒ Safety precaution.	1	2	3
5.	Apply putty on joints / holes	☒ Importance and identification of putty ☒ Application procedure. ☒ Safety precaution.	1	2	3
6.	Apply primer (Iron oxide)	☒ Importance and identification of primer. ☒ Types of primer. ☒ Application procedure. ☒ Safety precaution.	1	3	4
7.	Apply final paint	☒ Importance of final paint ☒ Types of paint used. (Enamel) ☒ Application procedure. ☒ Safety precaution.	1	3	4
8.	Perform decorating works	☒ Importance of decoration ☒ Materials used in decoration (flowers, Jhulla, Photos etc.)	1	3	4

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**Duty 6: Communicate with others**

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Communicate with senior cycle mechanics	☒ Meaning and importance of communication. ☒ Type of communication (oral, sign/gesture and written). ☒ Oral communication	1	2	3

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
		techniques. <input checked="" type="checkbox"/> Communication for cooperative/collaborative tasks. <input checked="" type="checkbox"/> Learning and information sharing. <input checked="" type="checkbox"/> Prior consultation on assigned work with the seniors. <input checked="" type="checkbox"/> Uses of appropriate communication language (with higher and lower position staffs.)			
2.	Communicate with client.	<input checked="" type="checkbox"/> Importance of listening and viewing the client's opinions (offering opinions, supporting statement and questions and clarification of the proposed job).	1	2	3
3.	Communicate with employer.	<input checked="" type="checkbox"/> Refer to task 2	1	2	3
4.	Communicate with colleagues.	<input checked="" type="checkbox"/> Importance of interpretation and explanation of the proposed job with friends.	1	2	3
5.	Communicate with supervisor.	<input checked="" type="checkbox"/> Refer to task 1	1	2	3
6.	Communicate with supplier.	<input checked="" type="checkbox"/> Refer to task 2	1	2	3
7.	Communicate with visitor.	<input checked="" type="checkbox"/> Refer to task 2	1	2	3
8.	Communicate with junior.	<input checked="" type="checkbox"/> Refer to task 4	1	2	3
9.	Communicate with Cycle and Riksa parts shops.	<input checked="" type="checkbox"/> Demand and supply order. <input checked="" type="checkbox"/> Bill / invoice. <input checked="" type="checkbox"/> Material supply and delivery.	1	2	3
10.	Receive telephone call.	<input checked="" type="checkbox"/> Meaning, importance and purpose of telephone <input checked="" type="checkbox"/> Telephone receiving technique <input checked="" type="checkbox"/> Etiquette of receiving telephone call.	1	2	3

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
		☒ Message writing technique			

**Duty 7: Grow professionalism.**

S. No	Competencies	Related Technical Knowledge	Time (in hrs.)		
			Th.	Prac.	Total
1.	Consult senior cycle mechanics.	☒ Importance of participating in career exploration activities with the senior cycle mechanics.	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 TV's channel/A/V aids. ☒ Importance of leaning from A/V.	1	2	3
6.	Browse World Wide Web.	☒ Familiarization with computer. ☒ WWW browsing techniques.	1	2	3
7.	Seek trainings places / programs	☒ Importance of trainings in career development. ☒ Possible training providers/institutes for refresher trainings.	1	2	3