JOB SPECIFICATON

AND

SKILL TEST

JOB TITLE : BICYCLE AND RICKSA MECHANIC, L - 1

SECTOR : MECHANICAL ENGINEERING

SUB-SECTOR : BICYCLE AND RICKSA

COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING

NATIONAL SKILL TESTING BOARD

MADHYAPUR THIMI -17, SANOTHIMI, BHAKTAPUR, NEPAL

October 11, 2007 (2064 .06.24)

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Sponsored by F-SKILL Pvt. Ltd.

Recommended by Mechanical Technical Sub Committee.

October 11, 2007 (2064 .06.24)

JOB SPECIFICATION

1

JOB TITLE : BICYCLE AND RICKSA MECHANIC

LEVEL : ONE (1)

2

JOB DESCRIPTION

The Bicycle and Ricksa Mechanic, L – 1 carries out the tasks, listed below in 3 (LIST OF TASKS) of ricksa and bicycle in accordance with supervisor instruction and supervision.

3

LIST OF TASKS:

1 Tightening tighter bolt on handle.
2 Straightening fork (Kaichi).
3 Changing a set of handle churi.
4 Changing handle.
5 Cutting thread in fork.
6 Repairing punctured tube.
7 Changing hub axle.
8 Changing tire/tube.
9 Installing key lock of chain.
10 Changing brake shoes.
11 Adjusting brake bottom.
12 Changing brake wire.
13 Changing brake rod.
14 Changing brake lever.
15 Changing brake vice (Chimta).
16 Setting brake clip.
17 Straightening crank.
18 Changing crank.
19 Riveting chain.
20 Changing chain.
21 Changing BB (Ball Bearing) cup, ball, axle and quarter pin.
22 Changing free-wheel parts.
23 Straightening axle pedal.
24 Changing axle pedal.
25 Changing pedal cup, ball and bearing.
26 Changing gear wheel.
27 Changing gear changer and wire (Shifter).
28 Changing axle bearing.
29 Straightening axle of ricksa.
30 Installing free-wheel plate.
31 Cutting thread in axle.
32 Replacing leaf spring.
33 Installing mud guard.
34 Installing chain cover
35 Installing carrier.
36 Straitening stand.
37 Installing lock.
38 Installing back light.
39 Repairing bell.
40 Installing bumper.
41 Installing handle cover (Mooth cover).
42 Installing hub rim brush.
43 Installing sight mirror.
44 Repairing seat of ricksa.

4

QUALIFYING NOTES (entry requirement etc.)

Physical requirement: Normal Health.

Educational requirement: Able to understand verbal instruction and read workshop manual and/or manufacturer's specifications.

	TASK SPECIFICATION
5	**TASK NO: 1** **TIGHTENING TIGHTER BOLT ON HANDLE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 1.1 Selects tools. 1.2 Checks handle. 1.3 Keeps handle straight. 1.4 Tightens tighter bolt on handle.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 11, 12, 14 and 15 number spanner.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Free play of handle checked. • Handle straight kept. • Tighter bolt tightened on handle as required tightness.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
1	1 2 3	Knowledge of types of handle. Knowledge of condition of handle. Knowledge of application of handle.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : TIGHTENING TIGHTER BOLT ON HANDLE.** **TASK NO : 1**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 1.1 Select tools as required. 1.2 Check free play of handle. 1.3 Keep handle in straight position. 1.4 Tight tighter bolt on handle as required tightness.		

TASK SPECIFICATION

5	**TASK NO: 2** **STRAIGHTENING FORK (KAICHI).** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 2.1 Selects tools. 2.2 Checks fork. 2.3 Opens tighter bolt. 2.4 Opens brake bottom. 2.5 Removes handle. 2.6 Opens handle check nut 2.7 Opens thread lesser. 2.8 Removes ball lesser. 2.9 Removes frame cup. 2.10 Removes wheel. 2.11 Removes brake clip. 2.12 Removes mud guard. 2.13 Removes fork. 2.14 Straighten fork. 2.15 Checks fork. 2.16 Fits frame cup. 2.17 Fits/tightens ball lesser. 2.18 Tightens fork. 2.19 Sets handle. 2.20 Tightens tighter bolt.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10, 11, 14 and 15 number spanner, slide wrench, drift punch, hammer, pipe, wooden anvil/anvil, grease, and screwdrivers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Tighter bolt and brake bottom opened. • Handle removed by rolling it. • Handle check-nut and thread lesser opened • Ball lesser, frame cup, wheel, brake clip, mud guard, fork removed safely. • Fork straightened by hammering or pipe. • Fork brought to original position. • Frame cup fitted on frame. • Ball lesser fitted/tightened by thread lesser as required. • Fork tightened as required. • Handle set on hole of fork. • Tighter bolt tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
2	1 2 3	Knowledge of application and types of fork. Knowledge of importance of greasing in ball lesser or moving parts. Knowledge of technique of straightening fork.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : STRAIGHTENING FORK (KAICHI).** **TASK NO : 2**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 2.1 Select tools as required. 2.2 Open tighter bolt and brake bottom. 2.3 Remove handle by rolling it. 2.4 Open handle check-nut and thread lesser. 2.5 Remove ball lesser, frame cup, wheel, brake clip, mud guard, fork safely. 2.6 Straight fork by hammering or pipe. 2.7 Check fork in original position or not. 2.8 Fit frame cup on frame. 2.9 Fit/tight ball lesser by thread lesser as required. 2.10 Tight fork as required. 2.11 Set handle on hole of fork. 2.12 Tight tighter bolt as required.		

TASK SPECIFICATION	
5	**TASK NO: 3** **CHANGING A SET OF HANDLE CHURI.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 3.1 Selects tools. 3.2 Opens tighter bolt, brake bottom, handle, handle check nut, thread lesser and ball lesser. 3.3 Checks handle churi, ball lesser and thread lesser. 3.4 Applies grease in ball and handle churi. 3.5 Tightens ball lesser, thread lesser and handle. 3.6 Sets brake bottom. 3.7 Checks operation of handle.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10, 11, 14 and 15 number spanner, drift punch, slide wrench, and grease.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Tighter bolt, brake bottom, handle, handle check nut, thread lesser and ball lesser opened. • Handle churi, ball lesser and thread lesser checked. • Grease applied in ball and handle churi as required grease. • Ball lesser and thread lesser tightened on fork by help of check-nut • Handle tightened on fork hole by help of tighter bolt. • Brake bottom set as required. • Operation of handle checked.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
3	1 2	Knowledge of function and types of churi set. Knowledge of technique of changing churi set.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING A SET OF HANDLE CHURI.** **TASK NO : 3**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 3.1 Select tools as required. 3.2 Open tighter bolt, brake bottom, handle, handle check-nut, thread lesser and ball lesser. 3.3 Check handle churi, ball lesser and thread lesser. 3.4 Apply grease in ball and handle churi as required grease. 3.5 Tight ball lesser and thread lesser on fork by help of check-nut 3.6 Tight handle on fork hole by help of tighter bolt. 3.7 Set brake bottom as required. 3.8 Check the operation of handle.		

TASK SPECIFICATION	
5	**TASK NO: 4** **CHANGING HANDLE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 4.1 Selects tools. 4.2 Opens tighter bolt. 4.3 Opens brake bottom. 4.4 Removes handle. 4.5 Checks new handle. 4.6 Fits handle. 4.7 Tightens tighter bolt 4.8 Adjusts brake

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10, 11, 14 and 15 number spanner, wooden plank, and hammer.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Tighter bolt and brake bottom opened. • Handle removed by rotating it. • New handle condition checked. • Handle fitted on hole of fork. • Tighter bolt tightened by keeping handle in straight position. • Brake adjusted as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
4	1 2	Knowledge of application and types of handle. Knowledge of technique of changing handle.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING A SET OF HANDLE CHURI.** **TASK NO : 4**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 4.1 Select tools as required. 4.2 Open tighter bolt and brake bottom. 4.3 Remove handle by rotating it. 4.4 Check new handle condition. 4.5 Fit handle on hole of fork. 4.6 Tight tighter bolt by keeping handle in straight position. 4.7 Adjust brake as required.		

TASK SPECIFICATION

5	**TASK NO: 5** **CUTTING THREAD IN FORK.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 5.1 Selects tools. 5.2 Opens tighter bolt and brake bottom. 5.3 Removes handle. 5.4 Opens check-nut and thread lesser. 5.5 Removes ball lesser. 5.6 Removes wheel. 5.7 Opens brake clip. 5.8 Removes fork. 5.9 Fills brass in damaged thread area. 5.10 Clamps fork on vice. 5.11 Cuts thread. 5.12 Sets fork on frame. 5.13 Fits ball lesser and thread lesser. 5.14 Applies grease on fork. 5.15 Tightens fork. 5.16 Fits handle, mud guard, and brake clip. 5.17 Adjusts brake. 5.18 Tightens wheel on fork.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10, 11, 14 and 15 number spanner, slide wrench, drift punch, screwdrivers, cutting oil, die set, vice, filler rod (brass), flux, gun stove, and grease.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Tighter bolt, brake bottom, check-nut, thread lesser, brake clip opened. • Handle, ball lesser, wheel, fork removed from frame. • Brass filled out in damaged thread area. • Fork clamped on vice securely. • Thread cut by die on fork. • Fork set on frame. • Ball lesser and thread lesser fitted. • Grease applied on upper part of the fork. • Fork tightened as required. • Handle, mud guard, and brake clip fitted. • Brake adjusted as required. • Wheel tightened on fork as required.

9	**10**	**TASK TRAINING DATA**			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
5	1 2 3 4	Knowledge of importance of thread. Knowledge of identification of fork thread condition. Knowledge of filling technique of brass by brazing. Knowledge of cutting procedure of thread by die.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CUTTING THREAD IN FORK.** **TASK NO : 5**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 5.1 Select tools required. 5.2 Open tighter bolt, brake bottom, check nut, thread lesser, ball lesser and brake clip opened. 5.3 Remove handle, wheel and fork from frame. 5.4 Fill brass in damaged thread area (brazing). 5.5 Clamp fork on vice securely. 5.6 Cut thread by die on fork. 5.7 Set fork on fork. 5.8 Fit ball lesser and thread lesser. 5.9 Apply grease on upper part of the fork. 5.10 Tight fork as required. 5.11 Fit handle, mud guard and brake clip. 5.12 Adjust brake as required. 5.13 Tight wheel on fork as required.		

TASK SPECIFICATION

5	**TASK NO: 6** **REPAIRING PUNCTURED TUBE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 6.1 Selects tools. 6.2 Opens tyre. 6.3 Removes tube. 6.4 Inspects the punctured tube. 6.5 Marks the puncture. 6.6 Checks and removes the nail/ foreign materials. 6.7 Cleans the puncture hole. 6.8 Patches the puncture tube. 6.9 Fills air in tube. 6.10 Checks for leaks. 6.11 Fits the tube into tyre. 6.12 Inflates the tyre.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** Tyre lever, hammer, pliers, drift punch, container with water, pin, patch or piece of tube, emery paper, blade, scissors, rubber solution, and air pump.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Tyre opened. • Tube removed. • Punctured tube inspected visually and with water. • Puncture marked with pin. • Nail/ foreign materials checked and removed from tyre/tube. • Puncture hole cleaned by emery paper. • Puncture hole of the tube patched. • Air filled in tube. • Checked for leaks. • Tube fitted into tyre. • Tyre inflated as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
6	1 2 3	Knowledge of types of tyre and tube. Knowledge of identification of puncture tube location and condition. Knowledge of technique of patching on puncture tube.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : REPAIRING PUNCTURE TUBE.** **TASK NO : 6**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 6.1 Select tools as required. 6.2 Open tyre. 6.3 Remove tube. 6.4 Inspect the punctured tube visually and with water. 6.5 Mark the puncture tube with pin. 6.6 Check and remove the nail/ foreign materials from tube and tyre. 6.7 Clean the puncture hole by emery paper. 6.8 Patch the puncture tube. 6.9 Fill air in tube. 6.10 Check for leaks visually with water. 6.11 Fit the tube into tyre. 6.12 Inflate the tyre as required.		

TASK SPECIFICATION

5	**TASK NO: 7** **CHANGING HUB AXLE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 7.1 Selects tools. 7.2 Opens axle. 7.3 Opens Brake vice. 7.4 Removes tyre. 7.5 Opens bearing. 7.6 Removes axle. 7.7 Cleans cup and ball. 7.8 Applies grease in cup. 7.9 Fits balls in cup. 7.10 Fits axle. 7.11 Opens nut and bearing. 7.12 Fits hub. 7.13 Sets bearing. 7.14 Tightens nut 7.15 Sets brake.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14 and 15 number spanner, net wrench, screwdrivers, combination pliers, drift punch, hammer, wooden anvil, grease, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Axle and brake vice opened. • Tyre removed. • Bearing and axle removed. • Cup and ball of bearing cleaned. • Grease applied in cup smoothly. • Balls fitted in cup. • Axle fitted securely. • Nut and bearing opened. • Hub fitted. • Bearing set. • Nut tightened as required. • Brake set as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
7	1 2 3	Knowledge of selecting hub according to rim. Knowledge of types of bearing and ball. Knowledge of technique of changing hub axle.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING HUB AXLE.** **TASK NO : 7**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 7.1 Select tools as required. 7.2 Open axle and brake vice. 7.3 Remove tyre, bearing, and axle. 7.4 Clean cup and ball of bearing. 7.5 Apply grease in cup smoothly. 7.6 Fit balls in cup. 7.7 Fit axle securely. 7.8 Open nut and bearing. 7.9 Fit hub. 7.10 Set bearing as required. 7.11 Tight nut as required. 7.12 Set brake as required.		

	TASK SPECIFICATION
5	**TASK NO: 8** **CHANGING TYRE AND TUBE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 8.1 Selects tools. 8.2 Removes wheel. 8.3 Removes air from wheel. 8.4 Removes tyre and tube from rim. 8.5 Checks and cleans rim. 8.6 Replaces tyre and tube on rim. 8.7 Fits tube into tyre. 8.8 Sets tyre on rim. 8.9 Fits wheel on bicycle. 8.10 Sets brake vice. 8.11 Inflates the tyre.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14 and 15 number spanner, net wrench, screwdrivers, combination pliers, hammer, tyre levers, air pump, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Wheel removed • Air removed from wheel. • Tyre and tube removed from rim. • Rim checked and cleaned. • Tyre and tube replaced on rim. • Tube fitted into tyre securely. • Tyre set on rim. • Wheel fitted on bicycle as required. • Brake vice set. • Tyre inflated as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
8	1 2	Knowledge of types of tyre and tube. Knowledge of technique of changing tyre and tube.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING TYRE AND TUBE.** **TASK NO : 8**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 8.1 Select tools. 8.2 Remove wheel. 8.3 Remove air from wheel. 8.4 Remove tyre and tube from rim. 8.5 Check and clean rim. 8.6 Replace tyre and tube on rim. 8.7 Fit tube into tyre securely. 8.8 Set tyre on rim. 8.9 Fit wheel on bicycle as required. 8.10 Set brake vice. 8.11 Inflate the tyre as required.		

TASK SPECIFICATION	
5	**TASK NO: 9** **INSTALLING KEY LOCK OF CHAIN.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 9.1 Selects tools. 9.2 Opens nut of hub axle. 9.3 Sets wheel. 9.4 Sets chain key on rear frame. 9.5 Adjusts chain. 9.6 Tightens nut of wheel. 9.7 Sets brake vice.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14 and 15 number spanner, net wrench, screwdrivers, and combination pliers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Nut of hub axle opened. • Wheel set on rear frame. • Chain key sets on rear frame. • Chain adjusted by chain key. • Wheel nut tightened as required. • Brake vice set.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
9	1 2	Knowledge of types of chain. Knowledge of application of chain. Knowledge of adjusting procedure of chain.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING KEY LOCK OF CHAIN.** **TASK NO : 9**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 9.1 Select tools. 9.2 Open nut of hub axle. 9.3 Set wheel on rear frame. 9.4 Set chain key on rear frame. 9.5 Adjust chain by chain key. 9.6 Tight wheel nut as required. 9.7 Set brake vice.		

TASK SPECIFICATION	
5	**TASK NO: 10** **CHANGING BRAKE SHOES.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 10.1 Selects tools. 10.2 Opens brake shoes. 10.3 Selects brake shoes. 10.4 Fits brake shoes. 10.5 Tightens brake shoes. 10.6 Adjusts brake vice.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8, 9, 10 and 11 number spanner.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake shoes opened. • Brake shoes selected as required. • Brake shoes fitted on brake vice. • Brake shoes tightened on centre of brake vice. • Brake vice adjusted as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
10	1 2 3	Knowledge of types of brakes. Knowledge of function of brake and brake shoes. Knowledge of clearance of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING BRAKE SHOES.** **TASK NO : 10**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 10.1 Select tools as required. 10.2 Open brake shoes. 10.3 Select brake shoes as required. 10.4 Fit brake shoes on brake vice. 10.5 Tight brake shoes on centre of brake vice. 10.6 Adjust brake vice as required.		

TASK SPECIFICATION	
5	**TASK NO: 11** **ADJUSTING BRAKE BOTTOM.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 11.1 Selects tools. 11.2 Opens nut. 11.3 Adjusts brake. 11.4 Tests brake. 11.5 Tightens nuts.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, and combination pliers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake bottom nut opened. • Brake adjusted as required. • Brake tested as correct operation. • Brake bottom nut tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
11	1 2 3 4	Knowledge of types of brakes (Wire and Rod brake). Knowledge of function of brake. Knowledge of adjusting brake. Knowledge of tightening of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : ADJUSTING BRAKE BOTTOM.** **TASK NO : 11**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 11.1 Select tools as required. 11.2 Open brake bottom nut. 11.3 Adjust brake as required. 11.4 Test brake as correct operation. 11.5 Tight brake bottom nut as required.		

TASK SPECIFICATION	
5	**TASK NO: 12** **CHANGING BRAKE WIRE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 12.1 Selects tools. 12.2 Opens nut. 12.3 Removes brake wire. 12.4 Fits new brake wire. 12.5 Adjusts brake wire. 12.6 Tightens brake wire.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, screwdrivers, and combination pliers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake bottom nut opened. • Brake wire removed from brake lever. • New brake wire fitted securely. • Brake wire adjusted on brake bottom as required. • Brake tested as correct operation. • Brake bottom nut tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
12	1 2 3 4	Knowledge of types of brakes (Wire and Rod brake). Knowledge of function of wire brake. Knowledge of adjusting procedure of wire brake. Knowledge of tightening of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING BRAKE WIRE.** **TASK NO : 12**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 21.1 Select tools as required. 21.2 Open brake bottom nut. 21.3 Remove brake wire from brake lever. 21.4 Fit new brake wire securely. 21.5 Adjust brake wire on brake bottom as required. 21.6 Test brake as correct operation. 21.7 Tight wire by brake bottom nut as required.		

TASK SPECIFICATION	
5	**TASK NO: 13** **CHANGING BRAKE ROD.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 13.1 Selects tools. 13.2 Opens brake bottom. 13.3 Removes brake rod. 13.4 Sets new brake rod. 13.5 Adjusts brake vice. 13.6 Tightens brake bottom.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, combination pliers, and screwdrivers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake bottom opened. • Brake rod removed from brake. • New brake rod set on brake bottom and brake bunch securely. • Brake vice adjusted as required. • Brake tested as correct operation. • Brake bottom nut tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
13	1 2 3 4	Knowledge of types of brakes (Wire and Rod brake). Knowledge of function of rod brake. Knowledge of adjusting procedure of rod brake. Knowledge of tightening of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING BRAKE ROD.** **TASK NO : 13**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 13.1 Select tools as required. 13.2 Open brake bottom nut. 13.3 Remove brake rod from brake lever. 13.4 Set new brake rod on brake bottom and brake bunch securely. 13.5 Adjust brake vice as required. 13.6 Test brake as correct operation. 13.7 Tight brake bottom nut as required.		

TASK SPECIFICATION	
5	**TASK NO: 14** **CHANGING BRAKE LEVER.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 14.1 Selects tools. 14.2 Opens brake lever. 14.3 Opens brake bottom. 14.4 Removes brake lever. 14.5 Sets brake lever. 14.6 Adjusts brake wire. 14.7 Sets brake 14.8 Tightens brake.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, and screwdrivers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake bottom and lever opened. • Brake lever removed from handle. • New brake lever set on handle securely. • Brake wire adjusted in brake bottom as required. • Brake set and tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
14	1 2 3 4	Knowledge of types of brakes (Wire and Rod brake). Knowledge of function of brake lever. Knowledge of adjusting procedure of brake. Knowledge of tightening of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING BRAKE LEVER.** **TASK NO : 14**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 14.1 Select tools as required. 14.2 Open brake bottom and lever. 14.3 Remove brake lever from handle. 14.4 Set new brake lever on handle securely. 14.5 Adjust brake wire in brake bottom as required. 14.6 Set and tight brake as required.		

TASK SPECIFICATION	
5	**TASK NO: 15** **CHANGING BRAKE VICE (CHIMTA).** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 15.1 Selects tools. 15.2 Removes brake vice. 15.3 Checks brake vice. 15.4 Fits brake vice. 15.5 Tightens nuts. 15.6 Tests brake.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8, 9, 10 and 11 number spanner, combination pliers, and screwdrivers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake vice removed from rear brake bunch and front brake clip. • Brake vice checked for damage. • Brake vice fitted on brake bunch and brake clip securely. • Nuts tightened as required. • Brake operation tested.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
15	1 2 3	Knowledge of function of brake vice. Knowledge of testing procedure of brake. Knowledge of tightening of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING BRAKE VICE (CHIMTA).** **TASK NO : 15**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 15.1 Select tools as required. 15.2 Remove brake vice from rear brake bunch and front brake clip. 15.3 Check brake vice for damage. 15.4 Fit brake vice on brake bunch and brake clip securely. 15.5 Tight nuts as required. 15.6 Test brake operation.		

TASK SPECIFICATION	
5	**TASK NO: 16** **SETTING BRAKE CLIP.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 16.1 Selects tools. 16.2 Removes brake clip. 16.3 Checks brake clip. 16.4 Fits brake clip. 16.5 Sets brake vice 16.6 Tests brake.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** Hammer, lever, and screwdrivers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake clip removed from brake vice. • Brake clip checked for damage. • Brake clip fitted securely. • Brake clip set on brake clip. • Brake operation tested.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
16	1 2	Knowledge of function of brake clip. Knowledge of setting and testing procedure of brake.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : SETTING BRAKE CLIP.** **TASK NO : 16**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 16.1 Select tools as required. 16.2 Remove brake clip from brake vice. 16.3 Check brake clip for damage. 16.4 Set brake vice on brake clip securely. 16.5 Test brake operation.		

TASK SPECIFICATION	
5	**TASK NO: 17** **STRAIGHTENING CRANK.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 17.1 Selects tools. 17.2 Removes chain. 17.3 Straightens crank by hammering. 17.4 Checks gear. 17.5 Sets chain.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, drift punch, wooden plank, and hammer.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Chain removed. • Crank straightened by hammer. • Gear checked by moving crank teeth. • Chain set on crank teeth.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
17	1 2 3	Knowledge of function of crank. Knowledge of types of crank. Knowledge of straightening procedure of crank.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : STRAIGHTENENG CRANK.** **TASK NO : 17**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 17.1 Select tools as required. 17.2 Remove chain. 17.3 Straighten crank by hammering. 17.4 Check gear by moving crank teeth. 17.5 Set chain on crank teeth.		

TASK SPECIFICATION	
5	**TASK NO: 18** **CHANGING CRANK.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 18.1 Selects tools. 18.2 Removes chain. 18.3 Opens quarter pin. 18.4 Separates gear. 18.5 Sets gear. 18.6 Fits quarter pin. 18.7 Sets chain.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10, 11, 14 and 15 number spanner, drift punch, wooden plank, and hammer.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Chain removed. • Quarter pin opened. • Gear separated from BB axle. • Gear set on BB axle. • Quarter pin fitted on gear and BB axle safely. • Chain set on gear properly.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
18	1 2 3	Knowledge of function and types of crank. Knowledge of application of crank. Knowledge of technique of fitting quarter pin.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING CRANK.** **TASK NO : 18**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 18.1 Select tools as required. 18.2 Remove chain. 18.3 Open quarter pin. 18.4 Separate gear from BB axle. 18.5 Set gear on BB axle. 18.6. Fit quarter pin on gear and BB axle safely. 18.7 Set chain on gear properly.		

TASK SPECIFICATION	
5	**TASK NO: 19** **RIVETING CHAIN.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 19.1 Selects tools. 19.2 Removes chain. 19.3 Checks and identifies the damage in the chain. 19.4 Rivets links. 19.5 Fits back the chain.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** Anvil, drift punch, metal cone, nails, wooden plank, and hammer.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Chain removed as required. • Chain checked and identified damage part of the chain. • Chain riveted as specified. • Chain fitted on free-wheel and gear properly.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
19	1 2 3	Knowledge of function and types of chain. Knowledge of identification of fault in chain. Knowledge of technique of riveting the chain.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : RIVETING CHAIN.** **TASK NO : 19**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 19.1 Select tools as required. 19.2 Remove chain as required. 19.3 Check and identify damage part of chain. 19.4 Rivet the chain as specified. 19.5 Fit chain on free-wheel and gear properly.		

TASK SPECIFICATION	
5	**TASK NO: 20** **CHANGING CHAIN.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 20.1 Selects tools. 20.2 Separates chain from gear. 20.3 Removes chain from bicycle. 20.4 Opens chain lock. 20.5 Fits new chain. 20.6 Adjusts free-wheel and gear.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14 and 15 number spanner, net wrench, anvil, metal cone, wooden plank, and hammer.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Chain separated from gear as required. • Chain removed from bicycle. • Chain lock opened. • New chain fitted as specified securely. • Free-wheel and gear adjusted as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
20	1 2 3	Knowledge of function and types of chain. Knowledge of technique of changing chain. Knowledge of adjusting procedure of free-wheel and gear.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING CHAIN.** **TASK NO : 20**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 20.1 Select tools as required. 20.2 Separate chain from gear as required. 20.3 Remove chain from bicycle. 20.4 Open chain lock. 20.5 Fit new chain as specified securely. 20.6 Adjust free-wheel and gear as required.		

TASK SPECIFICATION

5	**TASK NO: 21** **CHANGING BB CUP, BALL, AXLE AND QUARTER PIN. OB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 21.1 Selects tools. 21.2 Removes chain. 21.3 Opens quarter pin. 21.4 Separates gear. 21.5 Opens quarter pin at another side. 21.6 Separates lefe Bai. 21.7 Opens BB cup. 21.8 Checks BB axle, cup, and ball. 21.9 Identifies/replaces damaged parts. 21.10 Applies grease in cup. 21.11 Puts ball in cup. 21.12 Adjusts BB axle on BB housing. 21.13 Sets BB cup on housing. 21.14 Sets gear on BB axle. 21.15 Sets quarter pins. 21.16 Fits chain on gear. 21.17 Tests the operation of cycle.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, drift punch, hammer, screwdrivers, combination pliers, BB wrench, grease, and cotton cloth
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Chain removed from gear. • Quarter pin opened. • Gear separated from BB axle. • Quarter pin opened at another side. • Lefe (Bai) separated from BB axle. • BB cup opened. • BB axle, cup, and ball checked. • Damaged parts identified/replaced as required • Specified grease applied in cup. • Ball fitted in cup. • BB axle adjusted on BB housing as specified. • BB cup set on housing. • Gear set on BB axle. • Quarter pins set on both side. • Chain fitted on gear. • Operation of cycle tested.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
21	1 2 3	Knowledge of function and types of BB sets. Knowledge of technique of changing BB axle, cup, and ball. Knowledge of identification of damaged parts.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING BB CUP, BALL, AXLE, AND QUARTER PIN.** **TASK NO : 21**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 21.1 Select tools as required. 21.2 Remove chain from gear. 21.3 Open quarter pin. 21.4 Separate gear from BB axle. 21.5 Open quarter pin at another side. 21.6 Separate lefe (Bai) from BB axle. 21.7 Open BB cup. 21.8 Check BB axle, cup, and ball. 21.9 Identify/replace damaged parts as required. 21.10 Apply specified grease in cup. 21.11 Fit ball in cup. 21.12 Adjust BB axle on BB housing as specified 21.13 Set BB cup on housing. 21.14 Set gear on BB axle. 21.15 Set quarter pins both side. 21.16 Fit chain on gear. 21.17 Test the operation of cycle.		

TASK SPECIFICATION

5	**TASK NO: 22** **CHANGING FREE-WHEEL PARTS.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 22.1 Selects tools. 22.2 Opens nuts of axle. 22.3 Separates brake vice. 22.4 Removes chain from sprocket. 22.5 Removes chain key. 22.6 Removes wheel. 22.7 Opens free-wheel check-nut. 22.8 Check ball, lock, and spring. 22.9 Replaces damaged parts. 22.10 Applies grease on free-wheel. 22.11 Puts balls. 22.12 Sets spring and lock. 22.13 Tightens check-nut of free-wheel. 22.14 Checks free-wheel. 22.15 Fits wheel. 22.16 Fits chain on free-wheel gear. 22.17 Sets chain key. 22.18 Adjusts chain. 22.19 Tightens nuts of hub axle. 22.20 Adjusts brake vice.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14 and 15 number spanner, drift punch, hammer, screwdrivers, combination pliers, BB wrench, a piece of cable wire, and grease.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Axle opened. • Brake vice separated. • Chain removed from sprocket. • Chain key removed. • Wheel removed. • Free-wheel check-nut opened. • Ball, lock, and spring checked and identified damaged. • Damaged parts replaced as specified. • Grease applied on free-wheel. • Balls fitted on free-wheel. • Spring and lock set. • Check-nut of free-wheel tightened as required. • Free-wheel operation checked as required. • Wheel fitted. • Chain fitted on free-wheel gear. • Chain key set as required place • Chain adjusted as required. • Nuts of hub axle tightened as required. • Brake vice adjusted as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
22	1 2 3	Knowledge of function and types of free-wheel. Knowledge of identifying technique of damaged parts. Knowledge of technique of changing free-wheel parts.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING FREE-WHEEL PARTS.** **TASK NO : 22**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 22.1 Select tools as required. 22.2 Open axle. 22.3 Separate brake vice. 22.4 Remove chain from sprocket. 22.5 Remove chain key. 22.6 Remove wheel. 22.7 Open free-wheel check-nut. 22.8 Check ball, lock, and spring and identify damaged. 22.9 Replace damaged parts as specified. 22.10 Apply specified grease on free-wheel. 22.11 Fit balls. 22.12 Set spring and lock. 22.13 Tight check-nut of free-wheel as required. 22.14 Check free-wheel operation. 22.15 Fit wheel. 22.16 Fit chain on free-wheel gear. 22.17 Set chain key. 22.18 Adjust chain as required. 22.19 Tight nuts of hub axle as required. 22.20 Adjust brake vice as required.		

TASK SPECIFICATION

5	**TASK NO: 23** **STRAIGHTENING AXLE OF PEDAL.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 23.1 Selects tools. 23.2 Opens rod nuts. 23.3 Removes pedal cup and blade. 23.4 Removes check-nut. 23.5 Removes bearing cup. 23.6 Opens lefe (Bai). 23.7 Straightens axle. 23.8 Sets axle of lefe. 23.9 Applies grease in cup. 23.10 Sets ball in cup. 23.11 Sets blade. 23.12 Sets pipe on pedal axle. 23.13 Sets blade cup. 23.14 Tightens rod nuts.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8, 9, 10, 11, 14 and 15 number spanner, 14 and 15 number pedal wrench, screwdrivers, cross wrench, combination pliers, piece of pipe, hammer, grease, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Rod nuts opened. • Pedal cup and blade removed. • Check nut removed. • Bearing cup removed. • Lefe (Bai) opened. • Axle straightened by using hammer and piece of pipe. • Axle of left set. • Specified grease applied in cup. • Ball set in cup. • Blade set. • Pipe set on pedal axle. • Blade cup set. • Rod nuts tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
23	1 2	Knowledge of identification of axle condition. Knowledge of straightening technique of axle.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : STRAIGHTENING AXLE OF PEDAL.** **TASK NO : 23**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 23.1 Select tools as required. 23.2 Open rod nuts. 23.3 Remove pedal cup and blade. 23.4 Remove check nut. 23.5 Remove bearing cup. 23.6 Open left (Bai). 23.7 Straight the axle by using hammer and piece of pipe. 23.8 Set axle of left safely. 23.9 Apply specified grease in cup. 23.10 Set ball, blade, pipe and blade cup as required. 23.11 Tight rod nuts as required.		

TASK SPECIFICATION

5	**TASK NO: 24** **CHANGING PEDAL AXLE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 24.1 Selects tools. 24.2 Opens rod nuts. 24.3 Removes pedal cup and blade. 24.4 Removes check nut. 24.5 Removes bearing cup. 24.6 Opens lefe (Bai). 24.7 Sets axle of lefe. 24.8 Applies grease in cup. 24.9 Sets ball in cup. 24.10 Sets blade. 24.11 Sets pipe on pedal axle. 24.12 Sets blade cup. 24.13 Tightens rod nuts.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8, 9, 10, 11, 14 and 15 number spanner, pedal wrench, screwdrivers, combination pliers, grease, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Rod nuts opened. • Pedal cup and blade removed. • Check-nut removed. • Bearing cup removed. • Left axle removed. • Axle of lefe set. • Specified grease applied in cup. • Ball set in cup. • Blade set. • Pipe set on pedal axle. • Blade cup set. • Rod nuts tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
24	1 2	Knowledge of function and types of pedal. Knowledge of setting axle of lefe, ball in cup, blade, pipe on pedal axle and blade cup.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING PEDAL AXLE.** **TASK NO : 24**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 24.1 Select tools as required. 24.2 Open rod nuts. 24.3 Remove pedal cup and blade. 24.4 Remove check nut. 24.5 Remove bearing cup. 24.6 Remove lefe (Bai). 24.7 Set axle safely. 24.8 Apply specified grease in cup. 24.9 Set ball, blade, pipe and blade cup as required. 24.10 Tight rod nuts as required.		

TASK SPECIFICATION

5	**TASK NO: 25** **CHANGING PEDAL CUP, BALL AND BEARING.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 25.1 Selects tools. 25.2 Opens rod nuts. 25.3 Removes pedal cup and blade. 25.4 Opens check nut (Pedal cone). 25.5 Removes cup and bearing. 25.6 Applies grease in cup 25.7 Sets/puts balls in cup. 25.8 Sets bearing. 25.9 Tightens check-nut (Pedal cone). 25.10 Sets/tightens pedal blade and cap.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8, 9, 10 and 11 number spanner, pedal wrench, screwdrivers, combination pliers, grease, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Pedal cup and blade removed. • Check nut (Pedal cone) removed. • Bearing and cup removed. • Specified grease applied in cup. • Ball set/fitted in cup as required. • Bearing set. • Check nut (Pedal cone) tightened as required. • Blade and cap set/tightened as required.

9	**10**	**TASK TRAINING DATA**			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
25	1 2 3	Knowledge of function and types of pedal. Knowledge of ball and bearing. Knowledge of changing technique of cup, ball and bearing.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING PEDAL CUP, BALL AND BEARING.** **TASK NO : 25**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 25.1 Select tools as required. 25.2 Open rod nuts. 25.3 Remove pedal cup and blade. 25.4 Open check nut (Pedal cone). 25.5 Remove cup, bearing and cone. 25.6 Apply specified grease in cup. 25.7 Set/fit balls in cup as required. 25.8 Set cone bearing. 25.9 Tight check nut (Pedal cone) as required. 25.10 Set/tight pedal blade and cap as required.		

TASK SPECIFICATION	
5	**TASK NO: 26** **CHANGING GEAR WHEEL.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 26.1 Selects tools. 26.2 Opens gear nut. 26.3 Removes gear wheel. 26.4 Replaces gear wheel. 26.5 Tightens gear wheel.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, drift punch, screwdrivers, combination pliers, wooden plank, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Gear nut opened. • Gear wheel removed. • Gear wheel replaced as specified. • Gear wheel tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
26	1 2 3	Knowledge of function and types of gear wheel. Knowledge of changing technique of gear wheel. Knowledge of tightening torque of gear wheel.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING GEAR WHEEL.** **TASK NO : 26**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 26.1 Select tools as required. 26.2 Open gear nut. 26.3 Remove gear wheel. 26.4 Replace gear wheel as specified. 26.5 Tight gear wheel as required.		

TASK SPECIFICATION

5	**TASK NO: 27** **CHANGING GEAR CHANGER AND WIRE (SHIFTER).** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 27.1 Selects tools. 27.2 Opens gear wire from gear bunch. 27.3 Opens gear changer nut from handle. 27.4 Removes gear wire from gear changer. 27.5 Opens gear changer nut. 27.6 Sets gear changer on handle. 27.7 Tightens gear changer nut. 27.8 Fits gear wire on gear changer. 27.9 Sets gear wire on gear bunch. 27.10 Tightens gear screw.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10 and 11 number spanner, drift punch, screwdrivers, combination pliers, wooden plank, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Gear wire opened from gear bunch. • Gear changer nut opened from handle. • Gear wire removed from gear changer. • Gear changer nut opened. • Gear changer set on handle properly. • Gear changer nut tightened as required. • Gear wire fit on gear changer. • Gear wire set on gear bunch properly. • Gear screw tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
27	1 2 3 4	Knowledge of function and types of gear changer. Knowledge of application of gear changer according to the handle. Knowledge of changing technique of gear changer. Knowledge of tightening torque of gear changer.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING GEAR CHANGER AND WIRE (SHIFTER).** **TASK NO : 27**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 27.1 Select tools as required. 27.2 Open gear wire from gear bunch. 27.3 Open gear changer nut from handle. 27.4 Remove gear wire from gear changer. 27.5 Open gear changer nut. 27.6 Set gear changer on handle properly. 27.7 Tight gear changer nut as required. 27.8 Fit gear wire on gear changer. 27.9 Set gear wire on gear bunch properly. 27.10 Tight gear screw as required.		

TASK SPECIFICATION

5	**TASK NO: 28** **CHANGING AXLE BEARING (RICKSA).** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 28.1 Selects tools. 28.2 Removes lock pin. 28.3 Opens axle check nut. 28.4 Removes wheel. 28.5 Loosens screws of clamp. 28.6 Loosens screw of bush. 28.7 Removes bush bearing. 28.8 Dismantles bearing. 28.9 Replaces bearing on axle. 28.10 Fits bush. 28.11 Fits wheel on axle. 28.12 Tightens axle check-nut. 28.13 Checks wheel by rotating. 28.14 Sets lock pin.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14and 15 number spanner, drift punch, sliding wrench, wooden plank, hammer, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Lock pin removed. • Axle check nut opened. • Wheel removed. • Screws of clamo loosened. • Screw of bush loosened. • Bush bearing removed. • Bearing dismantled. • Bearing replaced on axle as specified. • Bush fitted to bearing. • Wheel fitted on axle. • Axle check nut tightened as required. • Wheel balance checked by rotating. • Lock pin set securely.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
28	1 2 3	Knowledge of function, types and size of bearing. Knowledge of application of bush. Knowledge of changing technique of bearing.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CHANGING AXLE BEARING (RICKSA).** **TASK NO : 28**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 28.1 Select tools as required. 28.2 Remove lock pin. 28.3 Remove wheel. 28.4 Loosen screws of clamp and bush. 28.5 Remove bush bearing. 28.6 Dismantle bearing. 28.7 Replace bearing on axle as specified. 28.8 Fit bush to bearing. 28.9 Fit wheel on axle. 28.10 Tight axle check nut as required. 28.11 Check wheel balance by rotating. 28.12 Set lock pin securely.		

TASK SPECIFICATION	
5	**TASK NO: 29** **STRAIGHTENING AXLE (RICKSA).** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 29.1 Selects tools. 29.2 Removes lock pins. 29.3 Opens check nuts. 29.4 Removes wheels. 29.5 Opens clamp nuts. 29.6 Removes chain. 29.7 Removes axle. 29.8 Loosens screws of bushes. 29.9 Removes bush bearing. 29.10 Removes free wheel bush. 29.11 Checks axle. 29.12 Straightens axle. 29.13 Tightens free-wheel bush nut. 29.14 Fits bush bearing. 29.15 Fits ball bearings. 29.16 Tightens nuts. 29.17 Fits chain. 29.18 Fits free-wheel. 29.19 Tightens bush nuts. 29.20 Fits wheels. 29.21 Tightens check-nuts. 29.22 Locks wheels

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14and 15 number spanner, sliding wrench, screwdrivers, hammer, anvil, wooden plank, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Lock pin removed. • Check nut opened. • Wheel removed. • Clamp nuts opened. • Chain and axle removed. • Axle bush bearing and free-wheel bush removed. • Axle checked for damage. • Axle straightened by hammering. • Free wheel bush nut tighten on axle by hand. • Bush bearing fitted on axle as specified. • Bearing fitted on clamp. • Axle nuts tightened as required. • Chain put on free-wheel. • Free wheel fitted by rotating pedal crank. • Bush nuts tightened as required. • Wheels fitted. • Check-nuts tightened as required. • Lock pin set on wheel securely.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
29	1 2 3 4	Knowledge of identification of axle condition. Knowledge of application of axle. Knowledge of straightening technique of axle. Knowledge of tightening torque of check-nuts.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : STRAIGHTENING AXLE (RICKSA).** **TASK NO : 29**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 29.1 Select tools as required. 29.2 Remove lock pins. 29.3 Open check nuts. 29.4 Remove wheels. 29.5 Open clamp nuts. 29.6 Remove chain and axle. 29.7 Remove bush bearing and free wheel bush from axle. 29.8 Check axle for damage. 29.9 Straight axle by hammering. 29.10 Tight free wheel bush nut by hand. 29.11 Fit bush bearings on axle. 29.12 Fit bearings on clamp. 29.13 Tight nuts as required. 29.14 Keep chain on free-wheel. 29.15 Fit free wheel by rotating pedal crank. 29.16 Tight bush nuts as required. 29.17 Fit wheels. 29.18 Tight check-nuts as required. 29.19 Lock wheels by lock pin.		

TASK SPECIFICATION

5	**TASK NO: 30** **INSTALLING FREE-WHEEL PLATE (RICKSA).** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 30.1 Selects tools. 30.2 Opens axle pin and check nut. 30.3 Removes wheel. 30.4 Removes bearing cover. 30.5 Removes chain. 30.6 Removes bush bearing. 30.7 Cuts rivets of free-wheel plate. 30.8 Sets the plate on free-wheel. 30.9 Rivets the free-wheel plate. 30.10 Fits free-wheel and bearing on axle. 30.11 Tightens bearing cover. 30.12 Fits wheel. 30.13 Tightens check-nut. 30.14 Locks the axle. 30.15 Fits chain on free-wheel.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14and 15 number spanner, sliding wrench, chisel, screwdrivers, hammer, combination pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Axle pin and check-nut opened. • Wheel, bearing cover, chain, and bush bearing removed sequentially. • Rivets of free-wheel plate cut. • Plate set on free-wheel. • Free-wheel plate riveted as required. • Free-wheel and bearing fitted on axle. • Bearing cover tightened as required. • Wheel fitted. • Check-nut tightened as required. • Axle locked by pin securely. • Chain fitted on free-wheel.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
30	1 2 3 4 5	Knowledge of function and types of free-wheel plate. Knowledge of identification of free-wheel condition. Knowledge of application of free-wheel. Knowledge of riveting procedure of free-wheel plate. Knowledge of installing technique of free-wheel plate.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING FREE-WHEEL PLATE (RICKSA).** **TASK NO : 30**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 30.1 Select tools as required. 30.2 Open axle pin and check-nut. 30.3 Remove wheel, bearing cover, chain, and bush bearing sequentially. 30.4 Cut rivets of free-wheel plate securely. 30.5 Set the plate on free-wheel. 30.6 Rivet the free-wheel plate as required. 30.7 Fit free-wheel and bearing on axle. 30.8 Tight bearing cover as required. 30.9 Fit wheel. 30.10 Tight check-nut as required. 30.11 Lock the axle by pin. 30.12 Fit chain on free-wheel.		

TASK SPECIFICATION

5	**TASK NO: 31** **CUTTING THREAD IN AXLE.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 31.1 Selects tools. 31.2 Opens axle pin and check nut. 31.3 Removes wheel. 31.4 Removes bearing cover. 31.5 Removes chain. 31.6 Removes axle. 31.7 Clamps axle on vice. 31.8 Cuts thread. 31.9 Refits axle. 31.10 Fits chain. 31.11 Fits bearing cover. 31.12 Refits wheel. 31.13 Tightens check-nut. 31.14 Locks the wheel.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14and 15 number spanner, sliding wrench, screwdrivers, hammer, die set, combination pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Axle pin and check-nut opened. • Wheel, bearing cover, chain and axle removed sequentially. • Axle clamped on vice securely. • Thread cut by die as required. • Axle refitted. • Chain fitted. • Bearing cover fitted. • Wheel refitted. • Check nut tightened as required. • Wheel locked by pin

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
31	1 2 3	Knowledge of types of thread. Knowledge of identification of axle condition. Knowledge of cutting technique of thread.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CUTTING THREAD IN AXLE** **TASK NO : 31**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 31.1 Select tools as required. 31.2 Open axle pin and check nut. 31.3 Remove wheel, bearing cover, chain and axle sequentially. 31.4 Cut thread by die as required. 31.5 Refit axle. 31.6 Fit Chain. 31.7 Fit bearing cover. 31.8 Refit wheel. 31.9 Tight check-nut as required. 31.10 Lock wheel by pin		

TASK SPECIFICATION	
5	**TASK NO: 32** **REPLACING LEAF SPRING.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 32.1 Selects tools. 32.2 Puts safety stand. 32.3 Removes shackle bolts. 32.4 Removes leaf spring. 32.5 Replaces leaf spring. 32.6 Tightens shackle bolts. 32.7 Removes stand.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14and 15 number spanner, sliding wrench, screwdrivers, hammer, combination pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Safety stand put. • Shackle bolts removed. • Leaf spring removed. • Leaf spring replaced as specified. • Shackle bolts tightened as required. • Stand removed safely.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
32	1 2	Knowledge of function of leaf spring. Knowledge of replacing procedure of leaf spring			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : CUTTING THREAD IN AXLE** **TASK NO : 32**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 32.1 Select tools as required. 32.2 Put safety stand. 32.3 Remove shackle bolts. 32.4 Remove leaf spring. 32.5 Replace leaf spring as specified. 32.6 Tight shackle bolts as required. 32.7 Remove stand safely.		

TASK SPECIFICATION

5	**TASK NO: 33** **INSTALLING MUD GUARD.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 33.1 Selects tools. 33.2 Removes brake vice. 33.3 Removes chain. 33.4 Removes wheel. 33.5 Sets mud guard rod on mud guard. 33.6 Tightens mud guard on frame and fork. 33.7 Refits wheel. 33.8 Fits chain. 33.9 Fits mud guard rod on hub axle. 33.10 Tightens axle hub. 33.11 Adjusts brake.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8 and 9 number spanner, screwdrivers, pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Brake vice, chain and wheel removed. • Mud guard rod set on mud guard as specified. • Mud guard tightened on frame and fork as required. • Wheel refitted. • Chain fitted on crank and free-wheel by chain key. • Mud guard rod fitted on hub axle. • Axle hub tightened as required. • Brake adjusted as specified.

9	**10**	**TASK TRAINING DATA**			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
33	1 2 3	Knowledge of importance of mud guard. Knowledge of types of mud guard. Knowledge of installing mud guard.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING MUD GUARD.** **TASK NO : 33**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 33.1 Select tools as required. 33.2 Remove brake vice, chain, and wheel. 33.3 Set mud guard rod on mud guard as specified. 33.4 Tight mud guard on frame and fork as required. 33.5 Refit wheel. 33.6 Fit chain on crank and free-wheel by chain key. 33.7 Fit mud guard rod on hub axle. 33.8 Tight axle hub as required. 33.9 Adjust brake as required.		

TASK SPECIFICATION

5	**TASK NO: 34** **INSTALLING CHAIN COVER.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 34.1 Selects tools. 34.2 Positions the bicycle. 34.3 Sets chain cover clip. 34.4 Sets chain cover. 34.5 Opens chain stick bolt. 34.6 Tightens lower parts of the rear fork. 34.7 Sets chain cover. 34.8 Sets fork frame and chain cover 34.9 Tightens chain stick bolt.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8, 9, 10, 11, 12, 13, 14 and 15 number spanner, screwdrivers, pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Bicycle positioned. • Chain cover clip set on frame. • Chain cover set on chain clip. • Chain stick bolt opened. • Lower parts of the rear fork tightened as required. • Chain cover set as required. • Fork frame and chain cover set. • Chain stick bolt tightened as required.

9	**10**	**TASK TRAINING DATA**			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
34	1 2 3	Knowledge of types of chain cover. Knowledge of importance of chain cover. Knowledge of installing chain cover.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING CHAIN COVER.** **TASK NO : 34**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 34.1 Select tools as required. 34.2 Position the bicycle as required 34.3 Set chain cover clip on frame. 34.4 Set chain cover on chain clip. 34.5 Open chain stick bolt. 34.6 Tight lower parts of the rear fork as required. 34.7 Set chain cover as required. 34.8 Set fork frame and chain cover. 34.9 Tight chain stick bolt as required.		

TASK SPECIFICATION	
5	**TASK NO: 35** **INSTALLING CARRIER.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 35.1 Selects tools. 35.2 Positions the bicycle. 35.3 Fits the carrier in rear fork. 35.4 Opens axle nuts of rear wheel. 35.5 Fixes carrier in rod hole on hub axle and seat pillar bolt. 35.6 Tightens hub nuts.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 12, 13, 14 and 15 number spanner, screwdrivers, net wrench, combination pliers, hammer, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Bicycle positioned safely. • Carrier fitted in rear fork. • Axle nuts of rear wheel opened. • Carrier fixed in rod hole on hub axle and seat pillar bolt as required. • Hub nuts tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
35	1 2	Knowledge of application of carrier. Knowledge of installing carrier.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING CARRIER.** **TASK NO : 35**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 35.1 Select tools as required. 35.2 Position the bicycle safely. 35.3 Fit the carrier in rear fork. 35.4 Open axle nuts of rear wheel. 35.5 Fix carrier in rod hole on hub axle and seat pillar bolt as required. 35.6 Tight hub nuts as required.		

TASK SPECIFICATION	
5	**TASK NO: 36** **STRAIGHTENING STAND.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 36.1 Selects tools. 36.2 Opens hub axle nut. 36.3 Removes carrier and mud guard rod. 36.4 Removes stand. 36.5 Positions the bicycle. 36.6 Straightens the stand. 36.7 Fits stand on hub axle with spring. 36.8 Fits mud guard and carrier rod. 36.9 Sets stand on hub axle.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 14 and 15 number spanner, net wrench, hammer, wooden plank, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Hub axle nut opened. • Carrier, mud guard rod and stand removed. • Bicycle positioned safely. • Stand straightened by hammering as required. • Mud guard, carrier rod and stand fitted with spring on hub axle. • Stand set and tightened on hub axle as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
36	1 2	Knowledge of application and types of stand. Knowledge of installing stand with spring.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : STRAIGHTENING STAND.** **TASK NO : 36**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 36.1 Select tools as required. 36.2 Open hub axle nut. 36.3 Remove carrier, mud guard rod and stand 36.4 Position the bicycle safely. 36.5 Straighten stand by hammering as required. 36.6 Fit mud guard, carrier rod and stand with spring on hub axle. 36.7 Set and tight stand on hub axle as required.		

TASK SPECIFICATION	
5	**TASK NO: 37** **INSTALLING LOCK.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 37.1 Selects tools. 37.2 Positions the bicycle. 37.3 Fixes lock in rear fork. 37.4 Wraps lock blade. 37.5 Tightens lock blade.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8 and 9 number spanner, screwdrivers, combination pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Bicycle positioned safely. • Lock fixed in rear fork. • Lock blade wrapped on rear fork. • Lock blade tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
37	1 2	Knowledge of application and types of locks. Knowledge of installing lock.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING LOCK.** **TASK NO : 37**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 37.1 Select tools as required. 37.2 Stand up bicycle safely. 37.3 Fix mud guard to upward on lock. 37.4 Wrap lock blade on rear fork. 37.5 Tight lock blade as specified torque.		

TASK SPECIFICATION	
5	**TASK NO: 38** **INSTALLING BACK LIGHT.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 38.1 Selects tools. 38.2 Opens hub axle nut. 38.3 Removes carrier rod and mud guard rod. 38.4 Tightens rear mud guard. 38.5 Fits back light. 38.6 Refits mud guard rod and carrier rod. 38.7 Tightens hub axle nut.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8 and 9 number spanner, screwdrivers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Hub axle nut opened. • Carrier rod and mud guard rod removed. • Rear mud guard tightened as required. • Back light fitted. • Mud guard rod and carrier rod refitted on hub axle. • Hub axle nut tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
38	1 2	Knowledge of application and types of back light. Knowledge of installing back light.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING BACK LIGHT.** **TASK NO : 38**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 38.1 Select tools as required. 38.2 Open hub axle nut. 38.3 Remove carrier rod and mud guard rod. 38.4 Tight rear mud guard as required. 38.5 Fit back light. 38.6 Refit mud guard rod and carrier rod on hub axle. 38.7 Tight hub axle nut as required.		

TASK SPECIFICATION	
5	**TASK NO: 39** **REAPAIRING BELL.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 39.1 Selects tools. 39.2 Opens bell cover. 39.3 Identifies damaged parts. 39.4 Straightens bell lever. 39.5 Changes bell spring. 39.6 Adjusts bell spring by cutting. 39.7 Changes bell clip. 39.8 Fits bell cover. 39.9 Tests bell.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8 and 9 number spanner, screwdrivers, combination pliers, hammer, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Bell cover opened. • Damaged parts identified. • Bell lever straightened by using combination pliers. • Bell spring changed as required. • Bell spring cut, tip rounded, and set on pillar and spring lever. • Bell clip changed as required. • Bell cover fitted. • Operation of bell tested.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
39	1 2	Knowledge of application and types of bells. Knowledge of straightening bell lever, adjusting and changing spring, and changing clip.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : REPAIRING BELL.** **TASK NO : 39**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 39.1 Select tools as required. 39.2 Open bell cover. 39.3 Identify damaged parts 39.4 Straight bell lever by using combination pliers. 39.5 Change bell spring as required. 39.6 Cut bell spring, round tip, and set on pillar and spring lever. 39.7 Change bell clip as required. 39.8 Fit bell cover. 39.9 Test the operation of bell.		

TASK SPECIFICATION	
5	**TASK NO: 40** **INSTALLING BUMPER.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 40.1 Selects tools. 40.2 Removes bumper. 40.3 Opens hub nuts. 40.4 Fits bumper. 40.5 Tightens hub nuts. 40.6 Tightens bumper clip.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 8 and 9 number spanner, screwdrivers, combination pliers, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Bumper removed from handle pipe. • Hub nuts opened. • Bumper fitted. • Hub nuts and bumper clip tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
40	1 2	Knowledge of application bumper. Knowledge of installing procedure of bumper.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING BUMPER.** **TASK NO : 40**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 40.1 Select tools as required. 40.2 Remove bumper on handle pipe. 40.3 Open hub nuts of both wheels. 40.4 Fit bumper. 40.5 Tight hub nuts and bumper clip as required.		

TASK SPECIFICATION	
5	**TASK NO: 41** **INSTALLING MOOTH COVER.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 41.1 Selects tools. 41.2 Removes mooth cover. 41.3 Applies grease on new mooth cover. 41.4 Fits mooth cover.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** Grease, and wooden hammer.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Mooth cover removed from handle. • Grease applied on new mooth cover. • Mooth cover fitted by rotating mooth cover.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
41	1 2	Knowledge of application of mooth cover. Knowledge of fitting mooth cover.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING MOOTH COVER.** **TASK NO : 41**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 41.1 Select tools as required. 41.2 Remove mooth cover from handle. 41.3 Apply grease on new mooth cover. 41.4 Fit mooth cover by rotating mooth cover.		

	TASK SPECIFICATION
5	**TASK NO: 42** **INSTALLING HUB RIM BRUSH.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 42.1 Selects tools. 42.2 Selects hub rim brush. 42.3 Fits rim brush. 42.4 Fits hub brush.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** Screwdrivers, and combination pliers.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Hub rim brush selected. • Rim brush fitted on mud guard rod. • Hub brush fitted by bending.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
42	1 2	Knowledge of application of hub and rim brush. Knowledge of fitting hub and rim brush.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING HUB RIM BRUSH.** **TASK NO : 42**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 42.1 Select tools as required. 42.2 Select hub rim brush. 42.3 Fit rim brush on mud guard rod. 42.4 Fit hub brush by bending.		

TASK SPECIFICATION	
5	**TASK NO: 43** **INSTALLING SIGHT MIRROR.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 43.1 Selects tools. 43.2 Opens clip nut. 43.3 Sets mirror clip. 43.4 Tightens nut bolt of mirror rod.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 12 and 13 number spanner.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Clip nut opened. • Mirror clip set with good sight seen. • Nut bolt tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
43	1 2 3	Knowledge of function and types of mirror. Knowledge of importance of mirror. Knowledge of fitting mirror.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING SIGHT MIRROR.** **TASK NO : 43**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 43.1 Select tools as required. 43.2 Open clip nut. 43.3 Set mirror clip with good sight seen. 43.4 Tight nut bolt of mirror rod.		

TASK SPECIFICATION	
5	**TASK NO: 44** **REPAIRING SEAT OF RICKSA.** **JOB TITTLE: BICYCLE AND RICKSA MECHANIC, L - 1**
6	**TASK ELEMENTS:** 44.1 Selects tools. 44.2 Removes seat from pillar. 44.3 Opens seat catcher. 44.4 Opens seat pad. 44.5 Rivets seat pad. 44.6 Changes seat. 44.7 Changes seat catcher. 44.8 Changes spring. 44.9 Tightens nuts and bolts.

	TASK SPECIFICATION
7	**TASK PERFORMANCE REQUIREMENTS** 10, 11, 12, 13, 14 and 15 number spanner, screwdrivers, hammer, combination pliers, wooden plank, and cotton cloth.
8	**TASK PERFORMANCE STANDARDS** • Tools selected as required. • Seat removed from pillar. • Seat catcher and seat pad opened. • Seat pad riveted with balance seat blade and pad. • Seat, seat catcher and spring changed as required. • Nuts and bolts tightened as required.

9	10	TASK TRAINING DATA			
TASK NO:	**T. E. No.**	**TECHNICAL KNOWLEDGE**	**APPLIED CALCULATION**	**GRAPHIC INFORMATION**	**SAFETY & HYGENE**
44	1 2 3	Knowledge of application of seat. Knowledge of riveting technique of seat pad. Knowledge of changing procedure of seat, catcher, and spring.			

	TASK PERFORMANCE TEST (SKILL ASSESSMENT)		
11	**TASK TITLE : INSTALLING SIGHT MIRROR.** **TASK NO : 44**		**LOCATION OF TEST :** **CANDIDATE'S NAME :** **EVALUATORS NAMES:**
12	**TEST FACTORS AND ITEMS**	**STANDARD MET**	**STANDARD NOT MET (Comments)**
	DID THE CANDIDATE ? 44.1 Select tools as required. 44.2 Remove seat from pillar. 44.3 Open seat catcher and seat pad. 44.4 Rivet seat pad with balance seat blade and pad. 44.5 Change seat, seat catcher, and spring as required. 44.6 Tight nuts and bolts as required.		