

**JOB SPECIFICATION
AND
SKILL TEST**

JOB TITLE : Mechanical Fitter, L - 1
SECTOR : Mechanical Engineering
SUB-SECTOR : Metal Machining

**COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING
NATIONAL SKILL TESTING BOARD
KATHMANDU, NEPAL
2001(2057/058)**

The National Skill Standards and Test was revised by :

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**Approved by the Tripartite National Skill Testing Board.
2001 (2057/058)**

TASK SPECIFICATION

1.	JOB TITLE : Mechanical fitter LEVEL : 1
2.	<u>JOB DESCRIPTION</u> : Mechanical fitter prepares materials and machines for drilling and grinding operations, corrects threads, performs cold riveting,, prepares and installs gaskets, cleans, transports and performs routine maintenance (oiling and greasing) of machinery and equipment.
3.	<u>LIST OF TASK</u> : <ol style="list-style-type: none">1. Prepares materials2. Operating bench, portable, and pillar type drilling machine3. Operating portable bench and pedestal grinding machine4. Operating power hacksaw5. Correcting threads with taps and dies6. Performing cold riveting7. Preparing and installing gaskets8. Cleaning the dismantled parts9. Performing routine maintenance (oiling or greasing)
4.	QUALIFYING NOTES (ENTRY REQUIREMENTS, etc.):- PHICYSICAL REQUIREMENTS : Normal Health. EDUCATIONAL REQUIRENMENTS : Understand specifications and interprets manufacturer's or workshop manual.

TASK SPECIFICATION

5

TASK NO : 1
Preparing materials

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 1.1 Receives instructions and interprets accordingly.
- 1.2 Uses protective clothing.
- 1.3 Selects required materials.
- 1.4 Carries out preliminary activities such as marking, filing and sawing off.
- 1.5 Carries out corrective activities such as hammering, chiseling, filing or brushing and cleaning.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Files, hammers, hacksaws, chisels, punches, scriber, wire brush, ruler, measuring tapes, bench, vice, try-square.

8.

TASK PERFORMANCE STANDARDS

- Dressed in appropriate safety clothing
- Materials selected as specified.
- Appropriate activities such as marking, filing and sawing off within the tolerance of ± 0.5 mm performed as required.
- Materials straightened, cleaned and deburred appropriately.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
1.	2.	Knowledge of identifying common engineering materials such as mild steel, copper, brass, aluminium.	Computation of numericals using four fundamental arithmetical operations such as addition, subtraction, multiplication and division	Reading of numerical dimension on the drawing or sketch.	Use of safety goggles while chipping.
	3.	Knowledge of marking on metals.			
	4.	Knowledge of use and care of hand tools			

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Preparing materials TASK NO : 1	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
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	<u>Did the Candidate ?</u> 1.1. Dress in appropriate safety clothing. 1.2. Select the appropriate materials as required. 1.3. Mark out, file, saw off the appropriate materials as specified or within ± 0.5 mm. 1.4. Straighten, clean and deburr the materials as required. 1.5. Observe related safety precautions. 1.6. Complete the test within specified time.		
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TASK SPECIFICATION

5

TASK NO : 2

Operating, portable, and pillar type drilling machines

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 2.1 Determines sequence and method of required operation.
- 2.2 Selects and fixes appropriate drill bits.
- 2.3 Positions and secures work piece on machine.
- 2.4 Sets machine for speed, adjusts table, stops, guides and safety guards.
- 2.5 Operates controls to feed cutting tools.
- 2.6 Ensures adequate and proper coolant supply.
- 2.7 Checks accuracy of drilling using measuring instruments.
- 2.8 Repositions work piece, changes bits and resets speed as necessary.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Files, scribe, marking gauges with surface plate, vernier caliper, center punch, drill bits, bench vice, steel ruler, drilling machine.

8

TASK PERFORMANCE STANDARDS

- Appropriate drill bit selected and clamped securely.
- Work piece positioned and clamped securely and appropriately.
- The machine set for appropriate speed.
- Stops, guides, table and safety guards adjusted appropriately.
- Controls operated either automatically or manually without causing rough surface and damage to work piece or machine.
- Coolant supplied adequately to prevent overheating of work piece and tool bit.
- Tolerance maintained at ± 0.5 mm.
- Work piece repositioned.
- Tools and machine reset if required.
- Cleanliness and related safety precautions observed.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
2.	<ol style="list-style-type: none"> 1. Knows about drilling machine. Its principles of operation, process and methods involved in drilling. 2. Knowledge of types and use of drill bits and their nomenclature. 3. Knowledge of clamping work piece securely. 4. Knowledge of cutting speed and feed, table adjustment, stops, guides, safety guards, and their function. 5. Knowledge of all the controls and their function. 6. Knowledge of use and care of measuring instruments such as vernier caliper. 7. Knows the use of coolant. 	<p>Reading of metric and imperial units for linear measurement. Addition and subtraction of numericals</p>			Use of safety goggles.

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Operating bench, portable, and pillar type drilling machine. TASK NO : 2	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p><u>Did the Candidate ?</u></p> <p>2.1 Dress in appropriate safety clothing.</p> <p>2.2 Select appropriate drill bit and clamp it securely.</p> <p>2.3 Clamp the work piece securely.</p> <p>2.4 Set and adjust speed, stops, guides, table and safety guards.</p> <p>2.5 Operate the controls appropriately.</p> <p>2.6 Ensure adequate enough supply of coolant.</p> <p>2.7 Produce the work within the tolerance of ± 0.5 mm.</p> <p>2.8 Observe related safety precautions.</p> <p>2.9 Complete the work within specified time.</p>		

TASK SPECIFICATION

5

TASK NO : 3

Operating portable bench, and pedestal grinding machine

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 3.1 Determines sequence and method of required operation.
- 3.2 Adjusts tool rest and safety guards.
- 3.3 Carries out the grinding operation.
- 3.4 Ensures adequate flow of coolant.
- 3.5 Checks accuracy of grinding using measuring instruments.
- 3.6 Repositions the work piece as required.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Steel ruler, files, hacksaw, hammers, brush, bench, portable pedestal grinding machine, safety goggles, vernier caliper, measuring tapes, bench vice.

8

TASK PERFORMANCE STANDARDS

- Work piece positioned and held securely for grinding operation.
- Tools rest and safety guards adjusted appropriately.
- Work piece cooled by ensuring enough coolant flow.
- Work ground within specified tolerance or ± 0.5 mm.
- Work piece repositioned as required.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
3.	<ol style="list-style-type: none"> 1. Knowledge of types and use of grinding machine such as portable bench and pedestal. Process and methods involving in grinding. 2. Knowledge of safety guards, tool rest and their adjustment. 3. Knowledge of controls and their function. 4. Knowledge of importance of cooling while grinding. 5. Knowledge of use and care of measuring instruments. 6. Knowledge of clamping or holding methods of work piece while grinding. 		Reading of metric and imperial system of units for linear measurement.		<p>Consequence of not using safety guards/goggles.</p> <p>Hazards due to improper use of controls</p> <p>Hazards due to unsecured work piece and improperly secured.</p>

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Operating portable, bench, and pedestal grinding machine TASK NO : 3	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :	
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<u>Did the Candidate ?</u> 3.1 Position and clamp or hold the work securely. 3.2 Adjust tool rest and safety guards appropriately 3.3 Produce the work within tolerance of ± 0.5 mm 3.4 Produce the work piece within the specified time. 3.5 Use the goggles/safety guards during grinding.		

TASK SPECIFICATION

5

TASK NO : 4
Operating power hacksaw

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 4.1 Determines sequence and method of required operation.
- 4.2 Checks, adjusts or changes the blade as required.
- 4.3 Checks and ensures proper and adequate supply of coolant.
- 4.4 Positions and secures work piece on machine using bolts, clamps, vice and fixing devices for cutting.
- 4.5 Sets the appropriate feed.
- 4.6 Operates controls to run the machine.
- 4.7 Checks accuracy of cutting using measuring instruments.
- 4.8 Repositions the work piece.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Steel ruler, measuring tapes, hammers, power hacksaw with accessories, files, scribe.

8

TASK PERFORMANCE STANDARDS

- Blade checked, adjusted or changed as required.
- Work piece clamped securely and appropriately.
- The machine set for appropriate feed.
- Stops, guides, table and safety guards adjusted appropriately, and safety guard used.
- Controls operated to carry out the cutting operation.
- Work piece produced within tolerance of ± 0.5 mm.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
4.	<ol style="list-style-type: none"> 1. Knowledge of power hacksaw and its working principle. 2. Knowledge of handling of work piece. 3. Knowledge of use of coolant. 4. Knows about feed. 5. Knowledge of location of control knobs. 6. Knows the use and care of measuring instruments. 		<p>Reading of metric and imperial system of units for linear measurement.</p> <p>Addition and subtraction of numerical.</p>		<p>Hazards due to improper use of controls</p>

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Operating power hacksaw TASK NO : 4	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :	
12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<u>Did the Candidate ?</u> 4.1 Check the blade and adjust if required. 4.2 Clamp the work piece securely and appropriately. 4.3 Adjust feed and stops appropriately and use safety guard. 4.4 Manipulate the controls safely to produce the work piece. 4.5 Cut the work piece within tolerance of ± 0.5 mm. 4.6 Cut the work piece within specified time.		

TASK SPECIFICATION

5

TASK NO : 5

Correcting threads with taps and dies.

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 5.1 Determines sequence and method of correcting threads with taps and dies.
- 5.2 Positions and secures work piece on bench vice or similar clamping device to carry out the operation.
- 5.3 Carries out tapping or dieing operation.
- 5.4 Checks for accuracy with measuring instruments.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Measuring tape, ruler, try square, taps and dies sets, bench vice, lubricating oil, tap wrench, die stock, thread gauge.

8

TASK PERFORMANCE STANDARDS

- The work piece positioned and secured in the vice or in appropriate clamping device.
- The tapping device/die used to correct thread.
- The work piece corrected as required.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
5.	<ol style="list-style-type: none"> 1. Knows the principle of dieing and tapping to produce thread. 2. Knows how to clamp the work piece securely. 3. Knows the use and care of measuring instruments. 	<p>Reading of metric and imperial system of units for linear measurement.</p>			

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Correcting threads with taps and dies TASK NO : 5	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<u>Did the Candidate ?</u> 5.1 Position and secure the work piece using clamping devices. 5.2 Correct the thread as required. 5.3 Correct the thread within specified time.		

TASK SPECIFICATION

5

TASK NO : 6
performing cold riveting

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 6.1 Determines sequence and method of operation.
- 6.2 Selects and prepares appropriate riveter, rivets, drill bit as required.
- 6.3 Drills the holes as required for riveting.
- 6.4 Positions and secures work piece using bolts, clamps, or vice.
- 6.5 Carries out riveting as required.
- 6.6 Checks accuracy using measuring instruments.
- 6.7 Repositions work piece.
- 6.8 Cleans, deburs and smooths the work piece.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Rivets, riveting sets, chisel, steel rule, scribe, hammer, file, hacksaw, drill bits, drilling machine.

8

TASK PERFORMANCE STANDARDS

- Appropriate drill bits, rivets and rivet set selected.
- The work piece positioned and secured using appropriate clamping device.
- Drilling and riveting operation performed as required.
- Work repositioned, cleaned, deburred or smoothed.
- The work piece produced within tolerance specified.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
6.	<ol style="list-style-type: none"> 1. Knows the principles of riveting, types of rivets and riveting sets and their uses. 2. Knows the process and methods of riveting. 3. Knows about secured clamping 	<p>Computation of basic arithmetical operation such as addition, subtraction, multiplication and division.</p>			Use of safety goggles.

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : `Performing cold riveting TASK NO : 6	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<u>Did the Candidate ?</u> 6.1 Select appropriate rivets and rivet set. 6.2 Drill holes for riveting as required. 6.3 Clamp and secure the work piece for riveting. 6.4 Clean, chip and deburr the work as required. 6.5 Produce the work piece to specified tolerance. 6.6 Produce the work piece within specified time.		

TASK SPECIFICATION

5

TASK NO : 7

Preparing and installing gaskets

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 7.1 Receives instructions and determines sequence and method of operation.
- 7.2 Selects appropriate materials and tools required.
- 7.3 Spreads the material on the moulds and marks out for cutting.
- 7.4 Cuts according to mark.
- 7.5 Cleans, deburrs and carries out finishing operation for gasket and seats for gasket.
- 7.6 Applies adhesive/lubricants and installs the gasket as specified.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Hole punch, scissors, hammers, rule, files.

8

TASK PERFORMANCE STANDARDS

- Appropriate tools selected.
- Gasket cut according to marking.
- The gasket cleaned and punched for holes as required.
- Adhesive applied appropriately.
- The gasket prepared as specified.

9	10	TASK TRAINING DATA			
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
7.	<ol style="list-style-type: none"> <li>1. <li>2. <li>3. 	<p>Knows about gaskets and gasket materials, importance and necessity of gaskets.</p> <p>Knows processes involved in preparing gasket.</p> <p>Knows how to fit gaskets.</p>			

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Preparing and installing gaskets TASK NO : 7	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p><u>Did the Candidate ?</u></p> <p>7.1 Select the appropriate tools.</p> <p>7.2 Mark as required.</p> <p>7.3 Cut and punch holes as required.</p> <p>7.4 Produce gasket within specified time.</p>		

TASK SPECIFICATION

5

TASK NO : 8

Cleaning the dismantled parts

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 8.1 Receives instructions and determines sequence and method required.
- 8.2 Prepares the cleaning materials, tools and work place.
- 8.3 Cleans the components as required.
- 8.4 Dries the components after cleaning.
- 8.5 Transports the cleaned component to the specified place.

Test piece: Dirty machine components.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Cleaning trough, wire brush, emery paper, scriber, files, kerosene, petrol, oil, air compressor with standard accessories.

8

TASK PERFORMANCE STANDARDS

- Cleaning materials, tools and equipment selected as required.
- Special care taken to ensure that cleaning fluid does not damage any component.
- Hand tools such as scraper, brush and air compressor used safely to carry out the required cleaning operation.
- All surplus dirt and foreign bodies removed.
- The component taken back to specified place.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
8.	<ol style="list-style-type: none"> 1. Knows appropriate cleaning fluid and accessories, tools and equipment, i.e. petrol, oil, kerosene, air compressor, scraper, files, brush. 2. Knows which parts of the component may react with petrol, oil or kerosene. 3. Knows how to use hand tools, i.e. scraper, files, brush, air compressor. 4. Knows how to handle the component safely. 				<p>Effects of cleaning solvent on skin.</p> <p>Consequences of mishandling compressed air</p> <p>Importance of glasses and gloves while cleaning .</p>

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Cleaning the dismantled parts TASK NO : 8	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p><u>Did the Candidate ?</u></p> <p>8.1 Select the cleaning tools and equipment as specified.</p> <p>8.2 Use the cleaning fluid as required.</p> <p>8.3 Use the hand tools required to carry out the job safely.</p> <p>8.4 Clean the given component as required. (All surplus dirt and foreign bodies removed).</p>		

TASK SPECIFICATION

5

TASK NO : 9

Performing routine maintenance (oiling/greasing)

JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 9.1 Receives instructions/interprets owner's manual for greasing and oiling.
- 9.2 Determines the parts to be greased/oiled.
- 9.3 Fills the can/gun with oil/grease.
- 9.4 Applies the oil/grease to the part as specified.
- 9.5 Repositions the cap and assures its tightness.
- 9.6 Stores the unused materials/equipment for next time.

Condition of test: Given greasing/ oiling guide for particular piece of machinery.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Oil can, grease gun, adjustable/ring/open/ended spanners, screw driver, oil, grease, cotton

8

TASK PERFORMANCE STANDARDS

- Parts to be greased/oiled identified as specified.
- Oil can/grease gun filled with required oil/grease.
- Oil/grease applied to conform with the owner's manual or specification provided.
- The cap/cover repositioned with appropriate tightness.
- Remaining materials stored in appropriate place.

9		10				TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE						
9.		<ol style="list-style-type: none"> 1. Knows the requires external lubrication parts of the machinery and the location of lubricating points. 2. Knows about keeping the oiling or greasing point clean. 3. Knows about storing oil/grease 4. Knows the use of hand tools such as spanners, screw drivers. 									<p>Aware of hazards of oil spills.</p> <p>Fire hazards of storing flammable materials.</p>

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Performing routine maintenance (oiling/greasing) TASK NO : 9	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<u>Did the Candidate ?</u> 9.1 Identify the parts to be cleaned or greased. 9.2 Fill the oil can or grease gun as required. 9.3 Apply the grease/oil to specified place at specified level. 9.4 Put the caps assuring required tightness. 9.5 Store the gun/can at specified place.		

TASK SPECIFICATION

5

TASK NO : 10

Transporting required machinery components to the required place JOB TITLE : Mechanical fitter, L - 1

6

TASK ELEMENTS

- 10.1 Receives instructions and determines process and methods used for transporting materials.
- 10.2 Prepares transporting equipment; rollers, trolleys.
- 10.3 Prepares lifting appliances i.e. sling, hoist, portable crane, block and tackle, winch crab.
- 10.4 Secures the materials to be lifted with sling, hooks, etc.
- 10.5 Lifts the materials and places it on required transporting equipment.
- 10.6 Carries the component to required place.
- 10.7 Unloads the component and unties it.

Test piece: Given a heavy machine component for transportation.

TASK SPECIFICATION

7

TASK PERFORMANCE REQUIREMENTS

Skids, rollers, rope, wire sling, block and tackle, chain hoists, fork lifts, derrick or crane, jacks and wedges.

8

TASK PERFORMANCE STANDARDS

- Appropriate transporting means selected.
- Lifting machinery prepared as required.
- The materials to be lifted tied in right position and with right type of knot.
- The appropriate slings selected and placed in safe lifting position.
- The materials lifted manually or lifting machine and placed on the means of transport.
- The component carried to required place, unloaded and untied without damage.

9		10			
TASK TRAINING DATA					
TASK NO.	T.E. NO.	TECHNICAL KNOWLEDGE	APPLIED CALCULATION	GRAPHIC INFORMATION	SAFETY & HYGINE
10.		<ol style="list-style-type: none"> 1. Knowledge of transporting materials in workshop. 2. Knows and can use transporting equipment such as skids, rollers, derrick or crane. 3. Knows about lifting appliances such as sling, hoist, block and tackle, crow bar, winch crab. 4. Knows how to knot ropes safely and effectively. 5. Knows common lifting safely 6. Importance of selecting appropriate sling (correct rating). 			<p>Consequences of mishandling equipment.</p> <p>Consequences of using damaged sling, hoists etc.</p> <p>Consequence of insecurely tied knots and angle of lifting</p>

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Transporting required machinery components to the required place TASK NO : 10	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<u>Did the Candidate ?</u> 10.1 Select the appropriate means for transferring the components. 10.2 Prepare the lifting machinery as required. 10.3 Select appropriate sling or rope and place in correct lifting position. Knots tied securely. 10.4 Carry the component to be cleaned to the required place without damaging it.		

TASK PERFORMANCE TEST (Skill assessment)

11	TASK TITLE : Mechanical fitter, L - 1 TASK NO : Comprehensive test	LOCATION OF TEST: CANDIDATE'S NAME : EVALUATORS' NAME :
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12	TEST FACTORS AND ITEMS	STANDARD MET	STANDARD NOT MET (Comments)
	<p><u>Did the Candidate ?</u></p> <ol style="list-style-type: none"> 1 Select the materials as required. 2 Mark out, saw and file the required materials. 3 Clean and deburr the material as required. 4 Select the appropriate drill bit and clamp it securely. 5 Clamp the marked piece securely. 6 Set and adjust feed, stops, guides, table and safety guards for drilling/grinding operation. 7 Operate the controls appropriately. 8 Carry out the drilling operation required. 9 Carry out the grinding operation required. 10 Position and secure work piece on bench vice or similar clamping device to carry out threading operation. 11 Produce the work piece within tolerance of ± 0.5 mm. 12 Produce the work piece within specified time. 13 Observe safety precautions. 		