

**Demonstrate Inspecting and Servicing Various Bearing, Seal and Gasket Used in Heavy Equipment**

Skill Number CO-OP15GN106

Full Name: Sulton Adam Alfarisa

No ID: \_\_\_\_\_

Validation Date: 29-2-2028

School: Smkn 1 Sragasari

**PERFORMANCE TASK:**

Given assorted bearings, seals and gaskets, the student is requested to perform the following tasks on the components:

- Removing
- Inspection
- Installing

The student must be able to perform the following task:

- Demonstrate removing, inspection and installing Bearing, Seals and Gasket.

It is recommended that assessor put questions to student regarding the findings of their inspections and subsequent report. Literature and measuring tools will be made available but will not be provided directly to the student. Safety and Contamination Control must be always applied to this process.

Prerequisite	Yes	No	N/A	Hints
The student must complete the knowledge assessment. Minimum passing grade 80%.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Score seal, bearing, gasket course or subject.

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Preparation				
Prepare related literature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is referring to the Manufacturer's Literature
Prepare required equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is preparing bearings, seals, and gaskets
Prepare related tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is preparing related tools (e.g.: Hand tools, bearing puller, Bearing heater, Infrared Thermometer, etc.)
Prepare Safety & Contamination Control equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is preparing related Safety & CC Equipment (e.g.: PPE, Blue Towel, Plastic Wrap, etc.)

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner when starting the job	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Meet the customer / assessor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Perform etiquette/manner when opening the interaction.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Perform smile & g interaction.
Explain the purpose of Student's activity.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ask permission to perform the job.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Remove, Inspect and Install Bearings, Seals and Gaskets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1. Accessing Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is access information relating task from main literature
2. Bearing, Seals & Gasket Removal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is removing seals and gasket following instruct manufacturer's literature
3. Determine bearing reusability of bearings, seals, and gasket	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is inspecting seals and gasket following instruct manufacturer's literature
4. Bearing, Seals & Gasket Installation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observe if the candidate is install seals and gasket following instruct manufacturer's literature
5. Equipment and tooling are used in the correct way	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Equipment and tooling are cleaned and returned to its correct location	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Documentation:				
Take picture if needed				



Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform close the job by ensuring all systems or conditions is in the standard condition	✓			<ul style="list-style-type: none"> <li>Find the improper condition.</li> <li>Communicate the finding to the customer/assessor.</li> </ul>
Ensure all systems or conditions are in standard condition.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Reporting				
All relevant documentation completed correctly and approved by customer (if required)	✓			<ul style="list-style-type: none"> <li>Completing the Task List</li> <li>Completing Measurement Form/Related Check Sheet, if required</li> <li>Create Service Report (SIMS), if required</li> <li>Create SPR, if required</li> <li>Documenting the failed or damaged parts, if required</li> <li>Provide Technical Analysis Report/Failure Analysis Report, if required.</li> </ul>

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Safety				
Using APD related to the job	✓			
Follows relevant Workplace Safety Guidelines (LOTO, Safety Equipment)	✓			<ul style="list-style-type: none"> <li>Comply with safety regulation that applied on the workplace</li> </ul>
State and follow Safety Precautions	✓			<ul style="list-style-type: none"> <li>Create Job Safety Analysis</li> <li>Student must follow safety procedure refer to service manual or SIS related to job</li> </ul>
Service man completes job without accident due to incorrect procedure using hand tools.	✓			<ul style="list-style-type: none"> <li>Correct working position</li> <li>Correct hand tool related to the job</li> </ul>
Tasks completed without damage equipment and tools	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Contamination Control				
Environmental Practices & Housekeeping	✓			<ol style="list-style-type: none"> <li>Waste is minimized, waste including sludge, solids and wastes are sorted and store recycling or disposal</li> <li>Packaging of goods receive and reused or disposed of properly</li> <li>Materials that can be reuse cleaned and stored</li> <li>Waste and scrap are removed following workplace procedure</li> <li>All fluids are disposed of in with enterprise policies and</li> </ol>

Tasks	Completed			Observation
	Yes	No	N/A	
Perform etiquette/manner after completing the job	✓			<ul style="list-style-type: none"> <li>Perform smile &amp; greet</li> <li>Ask permission to leave the interaction.</li> </ul>
Perform etiquette/manner when closing the communication.	✓			



General Comments

RESULT: COMPETENT  NOT YET COMPETENT  (please check (X))

Student: Sultan Adam Afriyogi

Name

Date 22-2-2026

Signature

Assessor:

Shirvan Ili

Date 27-2-2026

Signature

Supervisor:

Name

Date

Signature

Data Recorded:

Name

Date

Signature



**Demonstrate Inspecting and Servicing Various Bearing, Seal and Gasket Used in Heavy Equipment**

Skill Number CO-OP15GN106

Full Name: Sultan adam Alfarisoi

No ID: \_\_\_\_\_

Validation Date: 27-2-2026

School: SMkn 1 Singasari

**PERFORMANCE TASK:**

Given assorted bearings, seals and gaskets, the student is requested to perform the following tasks on the components:

- Removing
- Inspection
- Installing

The student must be able to perform the following task:

- Demonstrate removing, inspection and installing Bearing, Seals and Gasket.

It is recommended that assessor put questions to student regarding the findings of their inspections and subsequent report. Literature and measuring tools will be made available but will not be provided directly to the student. Safety and Contamination Control must be always applied to this process.

Prerequisite	Yes	No	N/A	Hints
The student must complete the knowledge assessment. Minimum passing grade 80%.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Preparation				
Prepare related literature	✓			
Prepare required equipment	✓			
Prepare related tools	✓			
Prepare Safety & Contamination Control equipment	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner when starting the job				
Meet the customer / assessor	✓			
Perform etiquette/manner when opening the interaction.	✓			
Explain the purpose of Student's activity.	✓			
Ask permission to perform the job.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Remove, Inspect and Install Bearings, Seals and Gaskets				
1. Accessing Information	✓			
2. Bearing, Seals & Gasket Removal	✓			
3. Delineate bearing reusability of bearings, seals, and gasket	✓			
4. Bearing, Seals & Gasket Installation	✓			
5. Equipment and tooling are used in the correct way	✓			
6. Equipment and tooling are cleaned and returned to its correct location	✓			
Documentation:				
Take picture if needed				

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform close the job by ensuring all systems or conditions is in the standard condition				
Ensure all systems or conditions are in standard condition.				

**Demonstrate Inspecting and Servicing Various Bearing, Seal and Gasket Used in Heavy Equipment**

Skill Number CO-OP15GN106  
 Perform close the job by ensuring all systems or conditions are in standard condition.  
 Observation / Hints

Validation Date: \_\_\_\_\_ School: \_\_\_\_\_

PERFORMANCE TASK: \_\_\_\_\_  
 Documentation: \_\_\_\_\_  
 Take picture if needed

REMOVED BEARING AND GASKETS, the student is requested to perform the following tasks on the components:  
 • Removing  
 • Inspection  
 Student: installing  
 The student must be able to perform the following task:  
 • Demonstrate removing, inspection and installing bearing, seals and gasket.  
 It is recommended that assessor put questions to student regarding the findings of their inspections and subsequent report. Literature and measuring tools will be made available but will not be provided directly to the student.  
 Safety and Contamination Control must be always applied to this process.

Supervisor:	Name	Date	Signature
1. The student must complete the knowledge assessment.			
2. Minimum passing grade 80%.			
3. Bearing, Seals & Gasket Removal			
4. Signature			
5. Hints			

Preparation	Tasks	Completed	Signature
1. Prepare related literature	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	
2. Prepare related equipment	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	
3. Prepare related tools	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	
4. Prepare Safety & Contamination Control equipment	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	

Tasks	Completed	Signature
1. Perform etiquette/manner when starting the job	Yes/No	
2. Meet the customer / assessor	Yes/No	
3. Perform etiquette/manner when opening the interaction.	Yes/No	
4. Explain the purpose of student's activity.	Yes/No	
5. Ask permission to perform the job.	Yes/No	

**Demonstrate Inspecting and Servicing Various Bearing, Seal and Gasket Used in Heavy Equipment**

Skill Number CO-OP15GN106  
 Perform close the job by ensuring all systems or conditions are in standard condition.  
 Observation / Hints

Validation Date: \_\_\_\_\_ School: \_\_\_\_\_

PERFORMANCE TASK: \_\_\_\_\_  
 Documentation: \_\_\_\_\_  
 Prepare Safety & Contamination Control

REMOVED BEARING, SEALS AND GASKETS, the student is requested to perform the following tasks on the components:  
 • Removing  
 • Inspection  
 Student: installing  
 The student must be able to perform the following task:  
 • Demonstrate removing, inspection and installing bearing, seals and gasket.  
 It is recommended that assessor put questions to student regarding the findings of their inspections and subsequent report. Literature and measuring tools will be made available but will not be provided directly to the student.  
 Safety and Contamination Control must be always applied to this process.

Supervisor:	Name	Date	Signature
1. The student must complete the knowledge assessment.			
2. Minimum passing grade 80%.			
3. Bearing, Seals & Gasket Removal			
4. Signature			
5. Hints			

Preparation	Tasks	Completed	Signature
1. Prepare related literature	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	
2. Prepare related equipment	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	
3. Prepare related tools	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	
4. Prepare Safety & Contamination Control equipment	Remove, inspect and install Bearings, Seals and Gaskets	Yes/No	

Tasks	Completed	Signature
1. Perform etiquette/manner when starting the job	Yes/No	
2. Ensure all systems or conditions are in standard condition.	Yes/No	
3. Perform etiquette/manner when opening the interaction.	Yes/No	
4. Explain the purpose of student's activity.	Yes/No	
5. Ask permission to perform the job.	Yes/No	

Reporting	Completed			Observation / Hints
	Yes	No	N/A	
All relevant documentation completed correctly and approved by customer (if required).	✓			

Tasks	Completed		Observation / Hints
	Yes	No	
Safety	✓		
Using APD related to the job	✓		
Follows relevant Workplace Safety Guidelines (LOTO, Safety Equipment)	✓		
State and follow Safety Precautions	✓		
Service man completes job without accident due to incorrect procedure using hand tools.	✓		
Tasks completed without damage equipment and tools	✓		

Tasks	Completed		Observation / Hints
	Yes	No	
Contamination Control	✓		
Environmental Practices & Housekeeping	✓		

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner after completing the job	✓			
Perform etiquette/manner when closing the communication.	✓			

General Comments

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RESULT: **COMPETENT**  NOT YET COMPETENT  (please check 'N')

Student: **Sulhan Adnan Alfarisqa** Date: **27-2-2026**

Assessor: **Septrawati B** Date: **27/2/2026**

Supervisor: \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

Data Recorded: \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

Tasks	Completion				Obs/Observer/Notes/Hints
	Yes	No	N/A	N/A	
Present and greet the customer when starting the job					
Meet the customer and greet them in a professional manner					
Explain the purpose of the student's activity.					Completed Observation / Hints
Safety					
Ask the customer to perform the job.					
Follows relevant Workplace Safety Guidelines (LOTO - Safety Equipment)					
Remove and inspect and fix the Bearings, Seats and Gaskets	Yes	No	N/A		Completed Observation / Hints
1. Seals and inspect the job without accident due to incorrect procedure using hand tools.					
2. Tasks completed without damage equipment and tools. Seals & Gasket Removal					Completed Date Recored
Date					
Name					
3. Determine bearing accessibility of bearings, seals, and gasket	Yes	No			Completed Observation / Hints
4. Bearing seals & Gasket Environmental Practices & Housekeeping					Completed Observer: <u>                    </u>
5. Equipment and tooling are used in the correct way	Yes	No	N/A		Completed Observation / Hints
Prepare and greet the customer when completing the job					Completed Date Recored
1. Prepare and greet the customer when completing the job					Completed Date Recored
Documentation:					
Take picture if needed					
Tasks					
Completed					
Yes					
No					
N/A					
Observation / Hints					
Perform close the job by ensuring all systems or conditions is in the standard condition					
Ensure all systems or conditions are in standard condition.					

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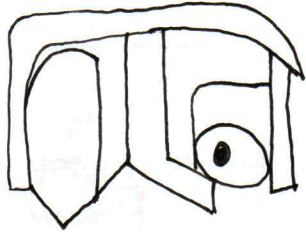
General Comments

Tasks	Completion				Obs/Observer/Notes/Hints
	Yes	No	N/A	N/A	
Using APD related to the job					
Remove and inspect and fix the Bearings, Seats and Gaskets	Yes	No	N/A		Completed Observation / Hints
1. Seals and inspect the job without accident due to incorrect procedure using hand tools.					
2. Tasks completed without damage equipment and tools. Seals & Gasket Removal					Completed Date Recored
Date					
Name					
3. Determine bearing accessibility of bearings, seals, and gasket	Yes	No			Completed Observation / Hints
4. Bearing seals & Gasket Environmental Practices & Housekeeping					Completed Observer: <u>                    </u>
5. Equipment and tooling are used in the correct way	Yes	No	N/A		Completed Observation / Hints
Prepare and greet the customer when completing the job					Completed Date Recored
1. Prepare and greet the customer when completing the job					Completed Date Recored
Documentation:					
Take picture if needed					
Tasks					
Completed					
Yes					
No					
N/A					
Observation / Hints					
Perform close the job by ensuring all systems or conditions is in the standard condition					
Ensure all systems or conditions are in standard condition.					

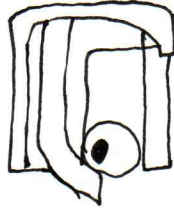
Page 4 of 4 Practical Assessment

General Comments

Double-lip seal  
with garter spring



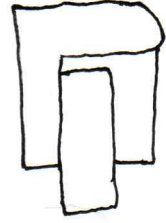
lip seal with  
Garter Spring



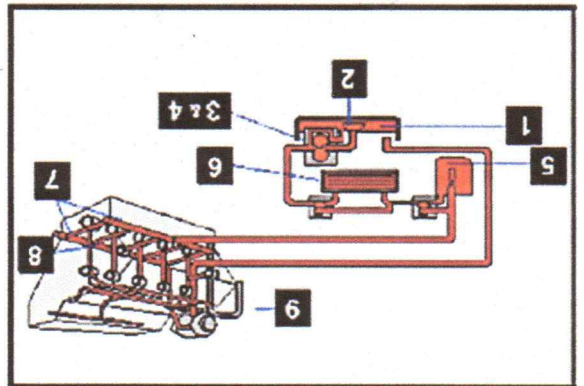
lip type  
seal



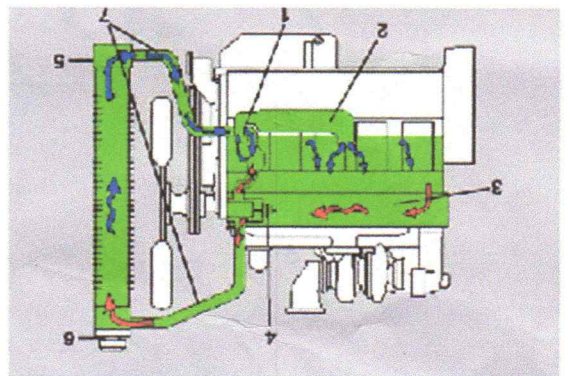
flat  
seal



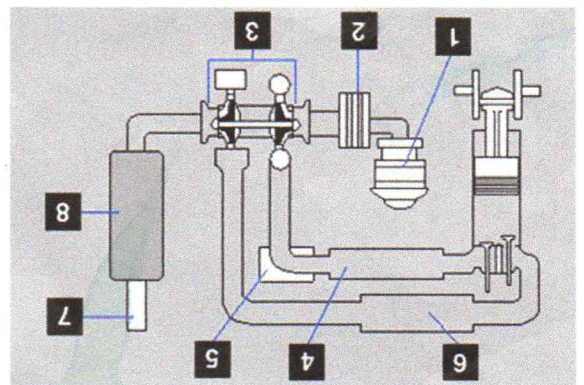
1. Oil tank
2. Oil sump
3. Oil pump
4. Oil pressure relief valve
5. Oil cooler dengan bypass valve (b)
6. Oil filter
7. Oil gallery
8. Filter coding jet
9. Crankcase breather



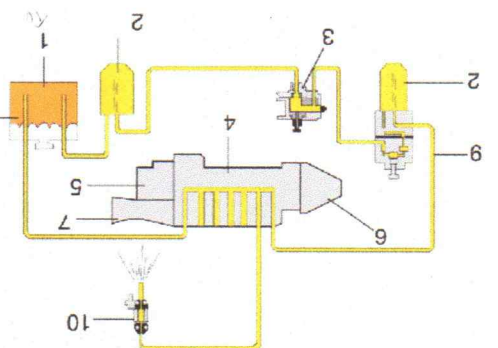
1. Water pump
2. Oil cooler
3. Jacket water
4. Thermostat
5. Radiator
6. Radiator fan
7. Water line

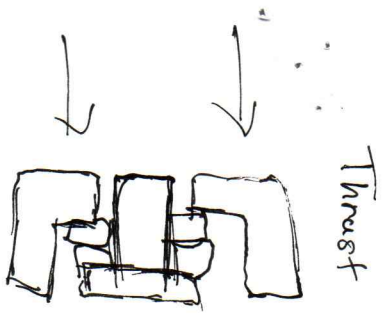


1. Air cleaner
2. Air cleaner
3. Turbocharger
4. Intake manifold
5. After cooler
6. Exhaust manifold
7. Exhaust stack
8. Muffler

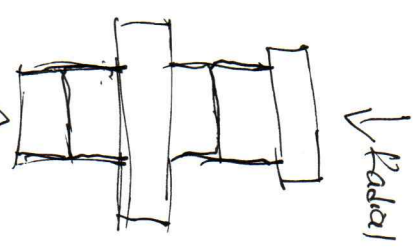


1. Fuel transfer pump
2. Fuel filter
3. Fuel pump
4. Fuel injector
5. Governor
6. Timing advance
7. Fuel ratio control
8. High pressure line
9. Low pressure line
10. Nozzle

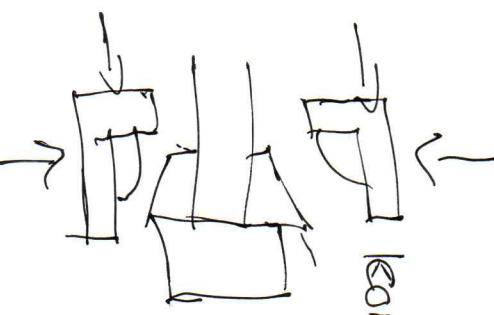




Thrust



Radial



Kombinasi

mengikuti sepanjang shaft

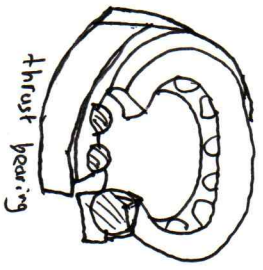
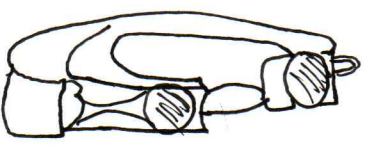


Tidak lurus Pada Shaft

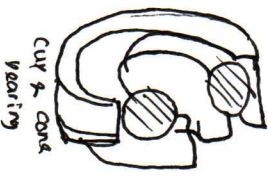
Thrust bearing & radial

Kombinasi antara

Single row ball bearing



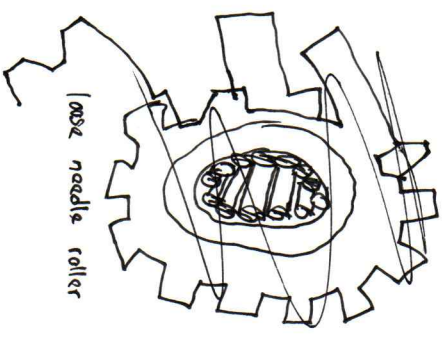
thrust bearing



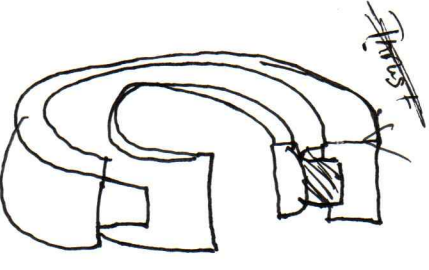
cup & cone bearing

Ball bearing

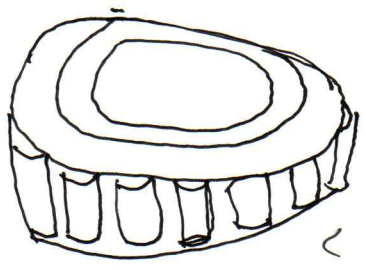
roller bearing



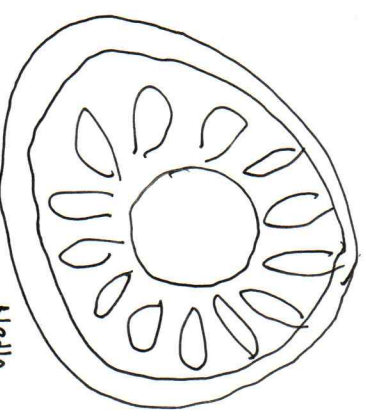
loose needle roller



Straight roller bearing



Tapered roller bearing



Needle Thrust bearing

**Demonstrate Inspecting and Servicing Various Bearing, Seal and Gasket Used in Heavy Equipment**

Skill Number CO-OP15GN106

Full Name: \_\_\_\_\_ No ID: \_\_\_\_\_  
 Validation Date: \_\_\_\_\_ School: \_\_\_\_\_

**PERFORMANCE TASK:**

Given assorted bearings, seals and gaskets, the student is requested to perform the following tasks on the components:

- Removing
- Inspection
- Installing

The student must be able to perform the following task:

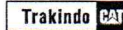
- Demonstrate removing, inspection and installing Bearing, Seals and Gasket.

It is recommended that assessor put questions to student regarding the findings of their inspections and subsequent report. Literature and measuring tools will be made available but will not be provided directly to the student.

Safety and Contamination Control must be always applied to this process.

Prerequisite	Completed			Hints
	Yes	No	N/A	
The student must complete the knowledge assessment. Minimum passing grade 80%.				

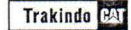
Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Preparation</b>				
Prepare related literature				
Prepare required equipment				
Prepare related tools				
Prepare Safety & Contamination Control equipment				



Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Perform etiquette/manner when starting the job</b>				
Meet the customer / assessor				
Perform etiquette/manner when opening the interaction.				
Explain the purpose of Student's activity.				
Ask permission to perform the job.				

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Remove, Inspect and Install Bearings, Seals and Gaskets</b>				
1. Accessing Information				
2. Bearing, Seals & Gasket Removal				
3. Determine bearing reusability of bearings, seals, and gasket				
4. Bearing, Seals & Gasket Installation				
5. Equipment and tooling are used in the correct way				
6. Equipment and tooling are cleaned and returned to its correct location				
<b>Documentation:</b>				
Take picture if needed				

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Perform close the job by ensuring all systems or conditions is in the standard condition</b>				
Ensure all systems or conditions are in standard condition.				



Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Reporting</b>				
All relevant documentation completed correctly and approved by customer (if required).				

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Safety</b>				
Using APD related to the job				
Follows relevant Workplace Safety Guidelines (LOTO, Safety Equipment)				
State and follow Safety Precautions				
Serviceman completes job without accident due to incorrect procedure using hand tools.				
Tasks completed without damage equipment and tools				

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Contamination Control</b>				
Environmental Practices & Housekeeping				

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Perform etiquette/manner after completing the job</b>				
Perform etiquette/manner when closing the communication.				



**General Comments**

RESULT: COMPETENT  NOT YET COMPETENT  (please check (✓))

Student: Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

Assessor: Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

Supervisor: Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

Data Recorded: Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

