

**Demonstrate Using Caterpillar Service Software**

Skill Number CO-OP15GN119

Full Name: Sutarn Royhan No ID: \_\_\_\_\_  
 Validation Date: 30/10/2025 School: SMK N1 SGS.

**PERFORMANCE TASK:**

For Polytechnic, given an electronic machine/engine and Computer contain SIS & ET. For Vocational high school, given a computer contain SIS.

The student must be able to complete the following tasks:

- Open SIS and find information required for a services/repair process.
- Print out the document required.
- Make a connection and communication ET tools to machine. (Polytechnic only)
- Access some menu on ET tools (information menu, diagnostic menu, service menu, flash programming menu). (Polytechnic only)
- Print out the product status report. (Polytechnic only)
- Perform communication & etiquette manner.

Prerequisite	Yes	No	N/A	Observation / Hints
The student must complete the knowledge assessment. Minimum passing grade 80%.	✓			Score SIS course or subject (for Polytechnic including ET course or subject).

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Preparation</b>				
Prepare related literature	✓			Candidate should be aware to check all literature such as SIS, Service Manual
Prepare required equipment	✓			Electronic Machine/Engine
Prepare related tools	✓			Computers contain SIS & ET, and Communication Adapter
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.	✓			<ul style="list-style-type: none"> <li>• Perform smile &amp; greetings.</li> <li>• Introduce Student's Identity</li> </ul>
Explain the purpose of Student's activity.	✓			
Ask permission to perform the job.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Demonstrate using SIS to find required information</b>				
Connect the computer to the network or Internet	✓			Setting to the network or Internet
Open SIS and find information required for service/repair.	✓			<ul style="list-style-type: none"> <li>• Access SIS menu</li> <li>• Input specified serial number.</li> <li>• Find below information refer to specified serial number:                             <ul style="list-style-type: none"> <li>- Specified system operation.</li> <li>- Specified testing &amp; adjusting.</li> <li>- Specified remove/install.</li> <li>- Specified Assemble/Disassemble</li> <li>- Specified specification.</li> <li>- Specified part number/group number.</li> <li>- Maintenance interval schedule.</li> </ul> </li> </ul>
<b>Documentation:</b>				
Take picture if needed				

Tasks	Completed		Observation / Hints
	Yes	No	
Demonstrate using ET to service and repair machine (for Polytechnic only)			
Make a connection and communication ET tools to machine			Setting preference on ET menu and PC / Laptop
Access some menu on ET tools			<ul style="list-style-type: none"> <li>Access to menu for performance test purpose on engine / machine, file management, and service purpose.</li> <li>Print out the product status report</li> </ul>
<b>Documentation:</b>			
Take picture if needed			

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

Tasks	Completed		Observation / Hints
	Yes	No	
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	Complete		Observation / Hints
	Yes	No	
Safety			
Using APD related to the job			
Follows relevant workplace safety guidelines (tag out, safety equipment)			Comply with safety regulation that applied on the workplace
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	Complete		Observation / Hints
	Yes	No	
Contamination Control			
Environmental Practices & Housekeeping			<ol style="list-style-type: none"> <li>Waste is minimized, waste material, including sludge, solids and other wastes are sorted and stored in bins for recycling or disposal</li> <li>Packaging of goods received is sorted and reused or disposed of by recycling</li> <li>Materials that can be reused are cleaned and stored</li> <li>Waste and scrap are removed following workplace procedures</li> <li>All fluids are disposed of in accordance with enterprise policies and procedures</li> </ol>

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

General Comments

Sudah dapat menggunakan catpencil  
course software dengan cukup baik  
Hingkatkan penerbitan bahasa Inggris.

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

Student: Sultan Rahman 24 30/10/2025  
Name Date Signature

Assessor: Alkansa TB 20/10/2024  
Name Date Signature

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

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

**Demonstrate Using Caterpillar Service Software**

Skill Number CO-OP15GN119

Full Name: Sulton Rayhan Zakri, A No. ID: \_\_\_\_\_  
 Validation Date: 30/10/2025 School: SMK NUS SINGAPARI

**PERFORMANCE TASK:**

For Polytechnic, given an electronic machine/engine and Computer contain SIS & ET. For Vocational high school, given a computer contain SIS.

The student must be able to complete the following tasks:

- Open SIS and find information required for a services/repair process.
- Print out the document required.
- Make a connection and communication ET tools to machine. (Polytechnic only)
- Access some menu on ET tools (information menu, diagnostic menu, service menu, flash programming menu). (Polytechnic only)
- Print out the product status report. (Polytechnic only)
- Perform communication & etiquette manner.

Prerequisite	Yes	No	N/A	Observation / 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	
<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>Demonstrate using SIS to find required information</b>				
Connect the computer to the network or Internet	✓			
Open SIS and find information required for service/repair.	✓			
<b>Documentation:</b>				
Take picture if needed	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Demonstrate using ET to service and repair machine (for Polytechnic only)</b>				
Make a connection and communication ET tools to machine			✓	
Access some menu on ET tools			✓	
<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	
All relevant documentation completed correctly and approved by customer (if required).	✓			

Tasks	Complete			Observation / Hints
	Yes	No	N/A	
Safety				
Using APD related to the job			✓	
Follows relevant workplace safety guidelines (tag out, 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	Complete			Observation / Hints
	Yes	No	N/A	
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 (✓))

Student: Sutton Rayhan 2.4 Date: 30/10/25 Signature: 

Assessor: Selvicover TP Date: 28/1/2025 Signature: 

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

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

1. Pump group 118 LBS  
52 kg

2. IOR-7975 ✓  
3. SENR6926 - O-Retaining Ring Pliers (Internal) ✓

4. Driver gearnya ada nya di sis kuning di GRPTS ✓  
5. Hidar-7858, Quantity: 1 ✓  
6. " 504, US Gallons: 133.1, Imperial Gallon: 111 ✓

7. Rearing temperature:  $82^{\circ} \pm 2^{\circ}C$  ( $180^{\circ} \pm 4^{\circ}F$ ), fully opened temperature:  $95^{\circ}C$  ( $203^{\circ}F$ ) ✓  
8. Rotating Clutches: 2, Stationary Clutches: 5, Planetary un. 5 ✓

9. Low idle (new):  $900 \pm 50$  rpm ✓

10. Keyword

11. Service Information pada bagian Disassembly and assembly ✓

12. SENR 3611-21 ✓

13. KENR 2583-01 ✓

14. IS-1643 ✓ (belum kelemu)

15. 8N-0246

16. SENR 2800-00, SENR 3935-00 (belum kelemu)

17. SENR 8178 ✓

18. Media number Hdat ada karna sudah diupdate

19. Media number tidak ada karna diupdate

20. Seal as, contoh letaknya ada di excavator 385c L KGB (CSP-0216 1461) ✓

21. P/N: 4w-2430 Reman: 20R-7547, P/N: 100-7408 Reman: 20-7546

22. clearance between bearing and Journal (new) 0.091 to 0.186 mm (0.36 to 0.073 in)  
Maximum permissible clearance between bearing and journal 0.25 mm (0.010 in)

23. Inlet: 0.50 mm