

**Demonstrate Contamination Control Implementation on the Workplace**

Skill Number CO-OP/15GN101

Full Name: Nashh Maulidra

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

Validation Date: 22 Dec 2025

School: \_\_\_\_\_

**PERFORMANCE TASK:**

Whilst working in a workshop environment the student is requested to perform the following tasks:

- Maintain a clean workplace.
- Maintain an orderly workplace (including storage of parts, tools, literature, and consumables) whilst following standard Contamination Control procedures.

Safety and contamination control must be applied in this process. All literatures will be available.

Prerequisite	Yes	No	Hints
The student must complete the Contamination Control knowledge assessment.	<input checked="" type="checkbox"/>		Score CC Course or subject.

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Prepare related literature	<input checked="" type="checkbox"/>			
Prepare required equipment	<input checked="" type="checkbox"/>			
Prepare related tools	<input checked="" type="checkbox"/>			
Prepare Safety & Contamination Control equipment	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner when starting the job	<input checked="" type="checkbox"/>			
Meet the customer / assessor	<input checked="" type="checkbox"/>			
Perform etiquette/manner when opening the interaction.	<input checked="" type="checkbox"/>			<ul style="list-style-type: none"> <li>• Perform smile &amp; greet</li> <li>• Introduce Student's name</li> </ul>
Explain the purpose of Student's activity.	<input checked="" type="checkbox"/>			
Ask permission to perform the job.	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<p><b>Perform Contamination Control Implementation on the Workplace</b></p> <p>1. Environmental Practices &amp; Housekeeping</p>	<input checked="" type="checkbox"/>			<ol style="list-style-type: none"> <li>1. Waste is minimized, waste materials including sludge, solids and oils are sorted and stored for recycling or disposal</li> <li>2. Packaging of goods received sorted and reused or disposed recycling</li> <li>3. Materials that can be reused cleaned and stored</li> <li>4. Waste and scrap is removed following workplace procedure</li> <li>5. All fluids are disposed of in accordance with enterprise procedures</li> </ol>
<p>2. Plug the hole to all opened components or hoses such as lines and hoses</p>	<input checked="" type="checkbox"/>			Use standard plugs for opened components and for lines, pipe, and hoses
<p>Documentation:</p> <p>Take picture if needed</p>	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform close the job by ensuring all systems or conditions is in the standard condition	<input checked="" type="checkbox"/>			<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.	<input checked="" type="checkbox"/>			

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	
Safety			
Using APD related to the job	✓		
Follows relevant workplace safety guidelines (tag out, 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>
Student 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	
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

Terima Kasih

RESULT:

COMPETENT

NOT YET COMPETENT

(please

Student:

*Nashh Maulidra*

22/11/25

Signature

Assessor:

*Arsan Hardi W., S.Pd., Gr.*  
NIP. 19840822 202221 1 012

Signature

Supervisor:

Name

Date

Signature

Data Recorded:

Name

Date

Signature

**Demonstrate Contamination Control Implementation on the Workplace**

Skill Number CO-OP15GN101

Full Name: Nashki Maulidira

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

Validation Date: 12 Dec 2025

School: \_\_\_\_\_

**PERFORMANCE TASK:**

Whilst working in a workshop environment, the student is requested to perform the following tasks:

- Maintain a clean workplace.
- Maintain an orderly workplace (including storage of parts, tools, literature, and consumables) whilst following standard Contamination Control procedures.

Safety and contamination control must be applied in this process. All literatures will be available.

Prerequisite	Completed			Hints
	Yes	No	N/A	
The student must complete the Contamination Control knowledge assessment.	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Preparation				
Prepare related literature	<input checked="" type="checkbox"/>			
Prepare required equipment	<input checked="" type="checkbox"/>			
Prepare related tools	<input checked="" type="checkbox"/>			
Prepare Safety & Contamination Control equipment	<input checked="" type="checkbox"/>			

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

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Perform Contamination Control Implementation on the Workplace</b>				
1. Environmental Practices & Housekeeping	<input checked="" type="checkbox"/>			
2. Plug the hole to all opened components or holes such as lines and hoses	<input checked="" type="checkbox"/>			
<b>Documentation:</b>				
Take picture if needed	<input checked="" type="checkbox"/>			

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.	<input checked="" type="checkbox"/>			

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

Tasks	Completed		Observation / Hints
	Yes	No	
Safety			
Using APD related to the job	✓		
Follows relevant workplace safety guidelines (tag out, safety equipment)	✓		
State and follow safety precautions	✓		
Student completes job without accident due to incorrect procedure using hand tools.	✓		
Tasks completed without damage equipment and tools	✓		

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

General Comments

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RESULT:  COMPETENT  NOT YET COMPETENT (please c

Student: Yusht Maulidita 22/12/15 [Signature]

Assessor: Arsan Hardi W., S.Pd., M.Pd. NIP. 19840822 202221 1012 [Signature]

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

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

08/12/2004

Cooling System Coolant Sample (Level 1) - Obtain (SEBU8053-20)

SMCS - 1395, 7542

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**Note: It is not necessary to obtain a Coolant Sample (Level 1) if the cooling system is filled with Cat ELC (Extended Life Coolant). Cooling systems that are filled with Cat ELC should have a Coolant Sample (Level 2) that is obtained at the recommended interval that is stated in the Maintenance Interval Schedule.**

**Note: Obtain a Coolant Sample (Level 1) if the cooling system is filled with any other coolant instead of Cat ELC. This includes the following types of coolants.**

- Commercial long life coolants that meet the Caterpillar Engine Coolant Specification -1 (Caterpillar EC-1)
- Cat Diesel Engine Antifreeze/Coolant (DEAC)
- Commercial heavy-duty coolant/antifreeze

#### NOTICE

Always use a designated pump for oil sampling, and use a separate designated pump for coolant sampling. Using the same pump for both types of samples may contaminate the samples that are being drawn. This contaminate may cause a false analysis and an incorrect interpretation that could lead to concerns by both dealers and customers.

**Note: Level 1 results may indicate a need for Level 2 Analysis.**

#### NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect

**and contain fluids on Caterpillar products.  
Dispose of all fluids according to local regulations and mandates.**

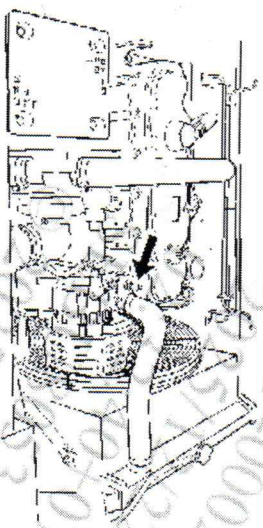


Illustration 1

A typical example is shown.

Obtain the sample of the coolant as close as possible to the recommended sampling interval. In order to receive the full effect of S.O.S analysis, you must establish a consistent trend of data. In order to establish a pertinent history of data, perform samplings that are evenly spaced. Supplies for collecting samples can be obtained your Caterpillar dealer.

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Use the following guidelines for proper sampling of the coolant:

- Complete the information on the label for the sampling bottle before you begin the samples.
- Keep the unused sampling bottles stored in plastic bags.
- Obtain coolant samples directly from the coolant sample port. You should not use the samples from any other location.
- Keep the lids on empty sampling bottles until you are ready to collect the sample.
- Place the sample in the mailing tube immediately after obtaining the sample to avoid contamination.

- Never collect samples from expansion bottles.
  - Never collect samples from the drain for a system.
- Submit the sample for Level 1 analysis.

For additional information about coolant analysis, see Special Publication, SEBU6250, "Caterpillar Machine Fluids Recommendations" or consult your Caterpillar dealer.

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**ANALISIS LINGKUNGAN KESELAMATAN KERJA / JOB SAFETY ENVIRONMENT ANALYSIS**

Pekerjaan / Task	SOS coolant 3200	Nomor JSEA / JSEA Number	1	Halaman / Page	1	Dari / Of	1
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Tanggal Pembuatan JSEA / Date of JSEA	22 Desember 2025	Departemen / Dept		Tempat Kerja / Work Location	Hanggar praktek TAB
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Diusun Oleh / Compiled By	Nashti	TTD Sign		Review Oleh / Reviewed By		TTD Sign		Atasan Superior		TTD Sign	
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Apakah Anda sudah terlatih untuk melakukan pekerjaan ini? / Are you properly trained to complete these task?  Ya / Yes  Tidak / No

Apa yang Anda perlukan untuk memastikan bahwa pekerjaan selesai tanpa adanya kecelakaan kerja? / What do you need to ensure this job is completed incident free?

Tools yang digunakan sudah sesuai dengan Manual

Siapa yang bertanggung jawab untuk menghentikan pekerjaan jika terjadi perubahan pekerjaan atau gangguan kondisi lingkungan kerja? / Who is responsible for Stop Work Authority if change job or workplace distraction could?

ABCD-1 (Technician Leader) / Mr. X (Customer)

Apakah Anda memerlukan peralatan LOTO? / Are you need LOTO Equipments?  Ya / Yes  Tidak / No

Apakah Anda mengetahui ERP/MERP dari pekerjaan yang sedang dilakukan?  Ya / Yes  Tidak / No *Jika tidak, silahkan tambahkan dalam urutan langkah tugas diawal*

Kondisi Lingkungan / Environmental Conditions	Cuaca / Weather	Cerah	Medan / Terrain	Tidak rata (berlumpur)
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Pengendalian Sumber Bahaya / Hazardous Energy Control	<input type="checkbox"/> Listrik / Electrical	<input checked="" type="checkbox"/> Gravitasi (Benda jatuh, tertimpa) / Gravitation (Falling objects, struck down)	<input type="checkbox"/> Pneumatik / Pneumatic
	<input type="checkbox"/> Hidraulik / Hydraulic	<input checked="" type="checkbox"/> Mekanis / Mechanical	<input checked="" type="checkbox"/> Panas / Thermal

APD yang diperlukan / Required PPE	<input checked="" type="checkbox"/> Helm / Safety Helm	<input type="checkbox"/> Pelindung Muka / Face shield	<input checked="" type="checkbox"/> Kacamata / Safety Glass
	<input checked="" type="checkbox"/> Sarung Tangan / Hand Gloves	<input type="checkbox"/> Pelindung Pernafasan / Respiratory Protection	<input type="checkbox"/> Perlindungan Kejatuhan / Fall Protection
	<input checked="" type="checkbox"/> Sepatu / Safety Shoes	<input type="checkbox"/> Pelindung Telinga / Hearing Protection	<input type="checkbox"/> Lain-Lain / Other .....

Hal yang perlu dipertimbangkan dalam mengidentifikasi bahaya / These to consider in identify hazards :

**1 Bahaya Keselamatan :** Kondisi tidak aman yang dapat menyebabkan injury atau kematian seperti terpelelet/terjatuh, tertimpa dll.  
Safety Hazard : unsafe conditions that can cause injury or even death, such as spill/falls, pinch point, struck by, etc.

**2 Bahaya Fisik :** Listrik, Api/ledakan, Kebisingan, Radiasi, Panas, Tekanan, Terpelelet, Tersandung/Terjatuh, Tertimpa, Getaran.  
Physical Hazards : Electrical, Fire/Explosion, Noise, Radiations, Thermal, Pressure, Pinch Point, Slips/Falls, Struck by, Vibration.

**3 Bahaya Kimia :** Terhirup, terkena kulit, injeksi, tertelan, terserap.  
Chemical Hazards : Inhalation, skin contact, injection, ingestion, absorption.

**4 Bahaya Biologi :** Patogen yang ditularkan melalui darah, jamur, tanaman/serangga/hewan.  
Biological Hazards : bloodbone pathogens, mold, Plant/Insect/Animals

**5 Bahaya Ergonomi :** Gerakan berulang-ulang, beban yang berlebihan, Postur Janggal, Durasi kerja, Desain area kerja.  
Ergonomic Hazards : Repetitions, Forcefull extention, Awkward Posture, Duration , Work area desain.

**6 Bahaya Organisasi :** stres atau bahaya terkait dengan masalah tempat kerja yang menyebabkan efek jangka panjang atau pendek, beban kerja yang berat dan kekerasan ditempat kerja.  
Organizational hazards: stressors or hazards associated with workplace issues that cause long or short term effects heavy workloads, stressful interactions and workplaces violence.

No	Urutan Dasar Langkah Tugas / Job Steps (* Maksimum 15 Langkah / Maximum 15 Steps)	Bahaya Yang Terkait / Potential Hazard(s)	Tindakan Perbaikan / Recommended Action
1.	Walk around inspection	1.1 masuk ke dalam lumpur 1.2 Terpelelet saat naik	1.1.1 perhatikan area pijakan 1.1.2 Gunakan safety shoes. 1.2.1 pastikan /perhatikan 3point contact 1.2.2 Gunakan safety gloves
2.	Prepare tools	2.1 Tersandung toolbox	2.1.1 pindahkan toolbox pada tempat yang aman. 2.1.2 Tetap gunakan safety shoes
3.	Doing sos coolant	3.1 Terbantur area kerja 3.2 mata terciprat coolant 3.3 Tangan terkena coolant	3.1.1 Tetap fokus saat bekerja. 3.1.2 Pakai safety helmet. 3.2.1 Tetap berhati-hati saat pengambilan 3.2.2 Gunakan safety glasses. 3.3.1 fokus saat bekerja. 3.3.2 Patal APD lengkap.
4.	House keeping	4.1 Terpelelet saat membersihkan area kerja 4.2 Terjatuh saat turun	4.1.1 Bersihkan menggunakan majun. 4.1.2 Selalu hati-hati 4.1.3 menggunakan safety shoes. 4.2.1 Turun perhatikan 3 point contact 4.2.2 Gunakan APD.