

# LESSONS LEARNED

## Enclosed Spaced Entry

Type of Incident	Attempted enclosed space entry into unsafe space
Description	<p>The vessel's crew was busy with ejecting water and mopping tanks. An enclosed space entry permit was issued, and pre-work talk carried out.</p> <p>One of the deck crew attempted to enter cargo tank 6P while the tank was still in an unsafe condition. This tank was not included in the permit, and not declared safe for entry.</p> <p>One of the crew saw him just before he entered the tank and stopped him. He told him to measure the tank oxygen content first.</p> <p>He was not aware that the tank's O2 content was not yet measured and "NOT SAFE FOR ENTRY" sign was posted at this tank.</p> <p>The tank atmosphere was then checked, reading 14% O2 content.</p> <p>If his fellow crew member had not stopped him, this could have ended in a fatality.</p>
Immediate Cause	Unsafe behavior
Root Cause	<ul style="list-style-type: none"> <li>• Procedure not followed</li> <li>• Inadequate leadership and supervision</li> <li>• Inadequate planning and information</li> <li>• Miscommunication of work</li> </ul> <p>No sign of entry was posted in the main hatch. The crew trying to enter was not attentive nor aware of the safe for entry sign. The tank was not measured, nor included in the PTW</p>
Actions/ Recommendations	<ul style="list-style-type: none"> <li>• Enclosed space entry procedure to be reviewed on board</li> <li>• All barriers must be in place: <ul style="list-style-type: none"> <li>○ Enclosed Space Permit- completed, tanks measured acc to <a href="#">170511</a> and <a href="#">RD190511</a></li> <li>○ Sign-in place at the tank to confirm safe for entry</li> <li>○ Pre-work talk – performed with all persons involved with enclosed space entry</li> <li>○ Personal detector checked and worn</li> </ul> </li> <li>• No one person is allowed to enter the tank alone, ensure situational awareness is aligned with your colleagues</li> <li>• The stop work authority can save lives</li> </ul>
Questions for Discussions	<ol style="list-style-type: none"> <li>1. What factors could have been contributing to the crews unsafe behaviour?</li> <li>2. How can we ensure that all safety precautions are followed on board?</li> </ol>
Notes	<p>Please discuss in the general safety meeting and with relevant teams. Every Enclosed space entry is a <b>Critical Operation</b>, requiring all safety barriers to be in place. The final barrier is that there must be a sign on the entrance that reads <b>Safe for Entry</b> if the tank is tested and safe.</p> <p>If there is <b>NO SIGN</b> then there is <b>NO ENTRY</b></p>