Marine Systematic Cause Analysis Technique
An Introduction
Marine Systematic Cause Analysis Technique (MSCAT)

MSCAT helps you and your organisation learn from maritime accidents and near-misses to prevent further human injury, environmental damage and quality losses.

MSCAT is a simple but powerful tool to investigate the causation of loss events. MSCAT is used by operational staff to quickly identify the corrective actions necessary to prevent similar events happening in the future.

MSCAT is available as a poster and software. With the MSCAT charts and guidance, it’s never been easier to effectively respond to loss events.
Root Cause Analysis and MSCAT

- MSCAT is based on DNV GL’s loss causation model
- All accidents are the result of similar basic causes
- Accidental losses are mainly due to management system failures
- The DNV GL Loss Causation Model helps us to understand why accidents are caused and what must be done to control these causes
MSCAT Software Functions

Use this simple software on your phone, tablet or desktop and begin driving down your accident rates and improving organisational performance.

**ANALYSE**
Events with high potential for loss need to be assessed using root cause analysis and improvement actions identified, so these events are not repeated.

**LEARN**
Simple guidance on learning from events, incident reporting, investigation, and analysis.

**TEST**
Test your knowledge of learning from events to earn achievement badges.

**CHART**
Download MSCAT Chart and print as posters for reference and to explain root cause analysis to others.

MSCAT software is provided using DNV GL’s HiPo software platform.

Available for desktop, android and apple devices
Screen Shots

Tried and tested analysis tool

Learn the keys steps of incident investigation

Understand the root causes of high potential events

Test your knowledge

What is Root Cause Analysis?

This is the heart of the investigation process. Unless basic or root causes are properly identified, any corrective actions will almost certainly be ineffective. Actions will address only the immediate causes or symptoms, in which case it is likely the same problems will repeat. The DNV GL Loss Causation Model shown below provides a simple concept that is vital to effective cause analysis. It shows that loss events are the result of a chain of immediate causes, basic causes ultimately a lack of management control. Incident investigation is the process of understanding this causation in order to identify the management system failure that has caused

Why is learning from events important?

- It is required by procedure
- It helps us prevent undesired events being repeated
- It helps us find the person to blame

Which events should be reported?

- Only serious accidents
- Only near misses
- All undesired events

How much effort should be devoted to the investigation?
MSCAT License Scheme

MSCAT is supplied under license. The benefits of having an MSCAT license are:

- MSCAT chart customised with your own logo in PDF format
- MSCAT manual explaining how to use MSCAT for incident investigation
- Unlimited users on MSCAT Software

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