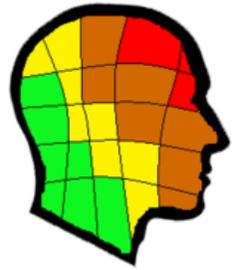




It's all about RISK!



"Risk management is not, and will never be, a magic formula that will always give you the right answer.

It is a way of thinking that will give you better answers to better questions, and by doing so, help you shift the odds in your favour..."

Dan Borge – The Book of Risk

There is an element of risk in all we do. Workplaces, especially those at sea, are dynamic and risks constantly change in shape, probabilities and exposure. But it's clear from the evidence that the current safety measures alone aren't managing risk effectively and delivering the required outcomes.

The management of Safety is perhaps the most practical of all the risk management disciplines. Accidents, injuries, equipment damage and environmental pollution are all visible consequences of inadequate risk management.

In response to the increasing awareness of the value of proactive risk management (as well as the introduction of the international ISO 31 000 Risk Management Standard), we have developed a new suite of auditing and training services to assist the fishing industry in meeting the risk management challenge.

The new ILO *Work in Fishing Convention, 2007 (No. 188)* expressly advocates a risk-based approach to safety on board. These workshops will provide you with the required knowledge, skills and tools to carry out this task effectively.

It's about a new way of thinking. It's all about RISK.....

And, in addition to the training outlined here, we can also work with your teams in the practical application of physical risk audits. These can be particularly useful in identifying vessel-specific hazards, assessing risks and identifying control measures. We can conduct an audit, and present you with a comprehensive report (with photographic evidence), based on the above. In addition, we can assist with the development of detailed company-specific risk management programs, mentoring and additional training.

The **FISH Safety Foundation** is now offering a specialist 2-part training package aimed at Owners, Skippers, Maritime Safety Managers, Responsible Persons, and all those seeking an in-depth understanding of Risk and Risk-taking Behaviour at sea.

Workshop 1: *Operational Risk Management & Bow-Tie Analysis*

Workshop 2: *Understanding Risk-taking Behaviour*

Whilst delegates are encouraged to undertake both workshops together, they can also be taken separately if needed.

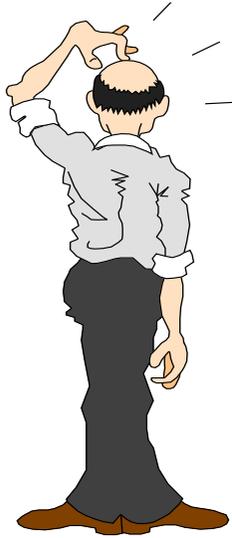


Professional Development Series

Workshop 1: *Operational Risk Management & Bow-Tie Analysis*

Workshop 2: *Understanding Risk-taking Behaviour*

This 4 day training package (delivered in 2 separate workshops) will provide a comprehensive introduction to practical Risk Management Practice, as well as an in-depth examination of Risk-taking behaviour – trying to understand why people take clear risks in dangerous environments.



We will make extensive use of case studies to provide a practical, engaging and interactive overview of key topic areas – ultimately promoting the application of this vital information in the workplace, on land or at sea.

NOTE: Both of these courses can be offered as bespoke in-house training packages, built on the standard courses, but also offering additional benefits:

- Flexibility in content, depending on your requirements
- Expert advice on solutions specific for your organisation
- Personalised case studies
- A more cost effective solution for larger groups of delegates
- Delivery at your premises and at a time convenient to all delegates
- If required, separate sessions can be delivered over a specified period

Workshop 1: Operational Risk Management & Bow-Tie Analysis

The ORM 4-STEP “SAFE” PROCESS

Operational Risk Management (ORM) is a **decision-making tool** used by fishing vessel personnel at all levels to increase operational effectiveness by identifying, assessing, controlling and monitoring risks. ORM increases the ability to make informed decisions – on a continuous basis. ORM can be both written or discussed, and acted upon.

Step 1: SEE the Hazard: A hazard is defined as any real or potential condition that can cause degradation, injury, illness, death or damage to or loss of equipment or property. Experience, professional competence, and specific analytical tools help identify risks.

Step 2: ASSESS the Risk: This is the application of quantitative and qualitative measures to determine the level of risk associated with specific hazards. This process defines the probability (likelihood) and severity (consequence) of an accident that could result from the hazards arising from the exposure of humans or assets to the hazards.

Step 3: FIX the Problem: Investigate specific strategies and tools that reduce, mitigate, or eliminate the risk. This analysis must take into account the overall practicality and benefits of remedial actions, providing alternative choices if possible. These will include behavioural, engineering, and administrative controls, as well as the appropriate PPE and Safety Gear.

Step 4: EVALUATE the Fix: Once controls are in place, the process must be periodically re-evaluated to ensure their effectiveness. Vessel personnel must fulfil their respective roles to assure that the controls are maintained over time. The risk management process continues throughout the life cycle of the vessel, system or activity.

Bow-Tie ANALYSIS

Bow-Tie Risk Analysis has become popular as a structured method to assess risk where a qualitative approach may not be possible or desirable. Bow-Tie diagrams clearly display the links between the potential causes, preventative and mitigative controls and consequences of a major accident.

The success of the diagram is that it is simple and easy for the non-specialist to understand. Bow-Ties are a great way to involve the broader team in risk management – it gives a visual summary of all foreseeable hazards, consequences and controls derived from a variety of plausible accident scenarios.

This session will provide you with the tools to look at risk from a macro perspective – starting with the identification of the things that can go wrong at sea.

Workshop 1 Framework

Day 1: Operational Risk Management

- An introduction to Risk Management principles
- Overview of theory and practice in ORM
- Practical application of ORM using case studies



Day 2: Bow-Tie Analysis



- Overview of theory and practice using Bow-Ties
- Applying the Bow-Tie methodology
- Providing the relevant ‘tools’ to assist in the process
- Practical Exercises, extensive group work

This is a must-do workshop for everyone interested in practical risk management practice.

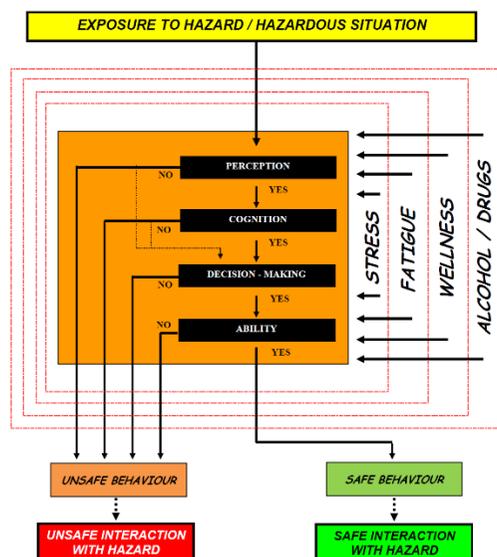
Workshop 2: Understanding Risk-taking Behaviour

This intensive 2-day workshop explores the interface between human factors and risk by examining cognitive and behavioural processes behind risk-taking behaviour. It focuses on developing the understanding and practical strategies needed to identify and manage the factors behind the often unpredictable workplace behaviours identified as factors in accident causation.

The workshop will work towards developing a model – based on cognitive psychology – where the focus is on the ‘cognition’ (*understanding*) of risk in the workplace, and the accompanying psychological processes required for full understanding.

Understanding human risk-taking behaviour is critically important in successfully managing the Risk Management process, reducing injury potential and minimizing unnecessary loss of all kinds.

The human perception of risk is a complex process and how the human mind processes that information, is essential in understanding why workers often take risks that would seem strange in hindsight. To do this we will examine the following model (derived from Ramsey):



The workshop will be of particular benefit to organisational and vessel Safety and HR Professionals seeking an understanding of human risk-taking behaviour.

Workshop 2 Framework

Day 1: Introduction to Risk-taking Behaviour

- An introduction to Human Factors in Safety
- The implications of adding ‘behaviour’ into the Hazard definition
- Understanding Risk
- Risk-taking behaviour – using the Ramsey Model
 - The role of Culture, Motivation, Perception, Decision-making and Attitudes
- Human Performance and Information Processing
- Practical Case Studies

Day 2: Strategies to manage Risk-taking Behaviour

- The foundation of Error
- Risk Homeostasis as a concept
- Incentive programs and risk-taking behaviour.
- Measuring risk-taking behaviour – the role of Audits
- Human Risk Management Tools
- Practical recommendations to reduce risk-taking
- Practical Case Studies

This is a must-do workshop for everyone interested in really understanding risk-taking behaviour in the workplace.

WORKSHOP MATERIAL

Throughout the training, we will make extensive use of The Nautical Institute’s award-winning **Alert!** Material, including the online bulletins, videos & charts. Delegates will be provided with:

- Copies of **Alert!** Articles
- Course slides & accompanying notes
- Practical case studies / exercises
- Access / links to Risk / HF information



ASSESSMENT

The courses will be assessed by multiple choice examinations, and group discussion on each module. Successful participants will receive a certificate from the **FISH Safety Foundation**.

INFORMATION / CONTACT DETAILS

For more information, please contact Eric Holliday, **FISH Safety Foundation**

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