

**REDUCE**

Likelihood of human error, unsafe acts and ineffective performance

PREVENT

Accidents and losses

IMPROVE

Performance regarding operator well-being, safety and economic benefits

MARITIME

HUMAN FACTORS AND SAFETY CULTURE

The performance of your **organisation** depends on the **technical** systems and **people**. We at DNV GL bring together the necessary competence and experience for assisting you in facing challenges related to human factors - throughout the whole life cycle of your work systems.

Human reliability assessment (HRA)

DNV GL provides solutions to help optimise performance-shaping factors (PSF) and minimise the likelihood of human error. We identify the likelihood of human error in a given scenario and closely assess the factors influencing human behaviour.

Safety-critical task analysis (SCTA)

SCTA helps improve the pro-active management of major accident hazards by controlling risk related to human behaviour. By identifying potential improvements in design, staffing, operations, procedures and training, among others, DNV GL supports you in enhancing safety performance and minimising economic loss.



Crisis intervention and operability (CRIOP) analysis

The CRIOP method focuses on the interaction between people, technology and organisations. CRIOP is a method used to verify and validate the ability of a central control room (cabin), considering ISO 11064, to safely and effectively handle all modes of operation.

Safety culture development

Our safety culture development service covers the entire process of safety culture - starting with mapping the current culture through to implementing changes and ensuring continuous improvement.

DNV GL services include:

- Workload analysis
- Organisation and manning study
- Leadership training
- Function-based bridge management

With our expanded global network of advisory offices, DNV GL provides an unrivalled range and depth of capabilities - from structural mechanics, fluid engineering, noise and vibration, risk, safety and reliability through to life cycle management, mechanical engineering and much more.

Backed by 150 years of maritime competence, today we deliver the full range of services for classification, certification, statutory services, verification and advisory in connection with virtually all ship types. With our broad and deep knowledge of vessels and their specific purposes, we support you in enhancing your business - and gaining a competitive edge.