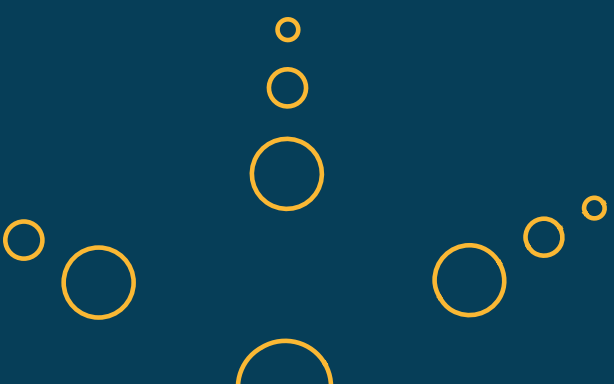




BASS  ROCK

OUR CAPABILITIES





CAPABILITY STATEMENT SAFETY ENGINEERING

Safety engineering is an interdisciplinary element of systems engineering, that requires collaboration among a wide spectrum of stakeholders to achieve safe and compliant systems.

Bass Rock specialise in delivering comprehensive safety engineering services that safeguard people, assets, and operations. We focus on identifying, assessing, and mitigating risks to ensure the safety and reliability of systems, processes, and products. Our proactive approach, rigorous methodologies, and extensive experience ensure that safety is integrated seamlessly into every aspect of client projects and processes.

Capabilities:

Functional Hazard Analysis: Identification of potential hazards and evaluating the risks associated with them. This involves analysing the likelihood and consequence severity of different system failures. We develop and implement effective risk mitigation strategies, including system architecture enhancements, engineering controls, and safety protocols, to reduce the likelihood of accidents and minimise the effects of their consequences.

Safety Design Principles: Incorporating inherent safety measures in the design phase, such as fail-safe mechanisms, redundancy, and the use of non-hazardous materials. We incorporate safety considerations into the design and development phases of projects, ensuring that safety features and controls are integrated from the outset.

System Safety Analysis: Employing techniques like Fault Tree Analysis (FTA) and Failure Mode and Effects Analysis (FMEA) to systematically evaluate and mitigate system risks. We ensure that safety systems are seamlessly integrated into existing infrastructure, optimising functionality and minimising disruptions.

Human Factors Engineering: Considering the interaction between humans and systems to reduce user error and enhance safety through ergonomic design and clear user interfaces.

Safety Regulations and Standards: Adhering to industry-specific safety standards and regulations to ensure compliance and protect against liability.

Emergency Preparedness: Developing and implementing emergency plans and procedures to prepare for potential accidents or disasters.

Continuous Improvement: Regularly reviewing and updating safety procedures, training, and equipment to adapt to new challenges and technologies.

Experience:

Successful Projects: Our engineers have a history of successfully delivering safety engineering solutions that have improved safety performance and ensured regulatory compliance across diverse projects including Aircraft systems, Air Traffic Surveillance Systems and changes to Airport infrastructure.

Proactive Risk Management: Our proactive approach focuses on identifying and addressing potential safety issues before they arise, reducing the likelihood of accidents and enhancing safety outcomes.

Our comprehensive approach ensures that safety is embedded in every stage of your project, from design to implementation. Our goal is to protect people, assets, property, and the environment by proactively addressing safety concerns throughout the lifecycle of a system or project.

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