Approximately 75% of accidents and catastrophic events are caused by human error, often resulting in significant public and environmental consequences. The process of fully integrating the human element into facility design and system operation is part of a robust risk management strategy to help reduce operational and life-cycle costs, and prevent loss.

As technology advances and system designs get more complex, understanding the interactions between humans and engineered systems is key to ensuring safe operations of facilities.

Products and Services
ABS Group has the experience and expertise in Human Factors Engineering to properly assess your facility and systems to eliminate or minimize the potential for accidents and allow for safe and efficient response to any events that may occur. Our Human Factors Engineering group can assist you with any number of analyses to properly integrate the human element into your design including:

- Human Factors Analysis (HFA)
- Human Reliability Analysis (HRA)
- Situational Awareness (SA) Studies
- Human Performance, Perception and Cognition Studies
- Human-Machine Interface and Integration Design
- Control Room Design, Task and Function Analysis
- Automation and Operator Alerting Systems Design
- Ergonomics, Functionality and Usability Studies
- Escape, Evacuation and Rescue Analysis (EERA)
- Crashworthiness and Survivability Factors
- Safety in Design Incorporating Human Factors
- Valve & Instrumentation Criticality Analysis
- Material Handling Studies
- Complex System Procedural Task Analysis
- Crew and Team Resource Management
- Human Error Prevention Strategies
- Health, Safety and Environment (HSE) Systems
- Mishap Investigation and Reconstruction

Industries Served
- Aviation and Aerospace
- Maritime and Rail Transportation
- Nuclear Power
- Electrical Power
- Wind Power
- Petrochemical
- Offshore Oil and Gas
- Heavy Equipment Manufacturing
- Medical and Healthcare

For additional information on a complete range of Human Factors Engineering services contact:

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