

About InterDynamics

InterDynamics is a leading provider of decision support and risk management methodologies and software. Servicing an international market, our extensive client base spans the spectrum of shiftwork and safety-critical industries, including transportation, mining, logistics, healthcare and manufacturing.

Fatigue Risk Management Solutions: Helping businesses identify, assess and manage the risks associated with work-related fatigue at both operational and management levels.

Decision Support Solutions:Helping organisations plan and schedule their business operations more effectively.

Our collaborative approach to customer service also helps us stand out from the crowd. Our experienced team can call on a wealth of problem-solving expertise to offer advice that is both practical and implementable.

Please contact us to find out more on this or our other offerings

Tel: +61 7 3229 8300 enquire@interdynamics.com HAZAID™ Hazard Cataloguing and Risk Assessment Tool is used to record the Fatigue Hazard Analysis (FHA) risk assessment information gathered during a FHA workshop. It is highly visual and interactive, and is used to ensure a high standard is maintained for information captured during the workshop process.

Fatigue Hazard Scenarios are defined by:

- Tasks (WHAT / WHERE?) e.g. operation of equipment.
- Triggers (HOW / WHY?) which include
 - Errors caused by one or more fatigue impairments (e.g. communication, situation assessment / mental models / memory / performance insight and
 - any other type of trigger (e.g. weather, equipment defects, lack of fuel, schedule recovery)
- Effects (HOW BAD HOW BIG, HOW OFTEN?)

Risk assessment (severity/probability) of each scenario is then determined by:

- Reports of accident and incidents that are part of the organisations' safety management system;
- Details and statistics of accidents and incidents that are available from Safety Authorities (such as a Civil Aviation Safety Authority) who have responsibility for industry wide safety; and
- Details and statistics of accidents and incidents for the organisations' industry that are available from the organisations' insurer.

Existing Controls are noted and the effect on the organisation as a result of a scenario is then determined and noted, e.g.

- Increased scrutiny by safety authorities and insurers;
- Down-time due to equipment malfunction caused by user error; or
- Poor market image.

During the workshop, a Task Risk Profile matrix is drawn and then once additional controls are determined and the scenarios are rerated to achieve a Task Risk Improvement Profile matrix (see Figures 1 - 4).



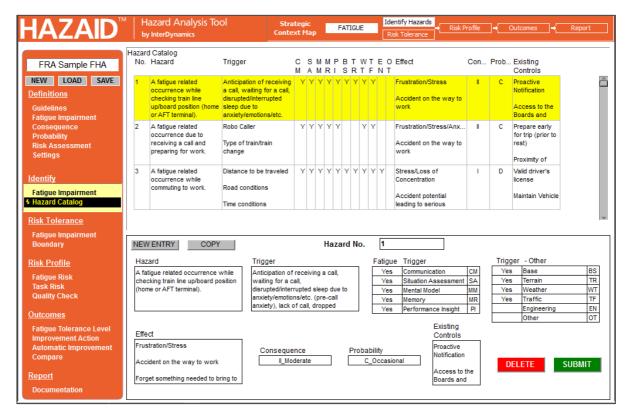


Figure 1 - Identifying the Hazards

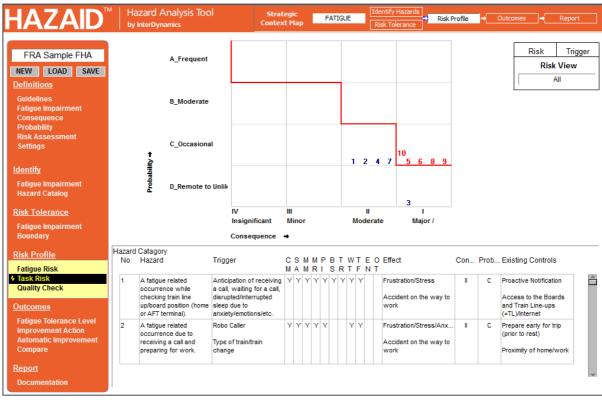


Figure 2 - Risk Profile - Task Risk

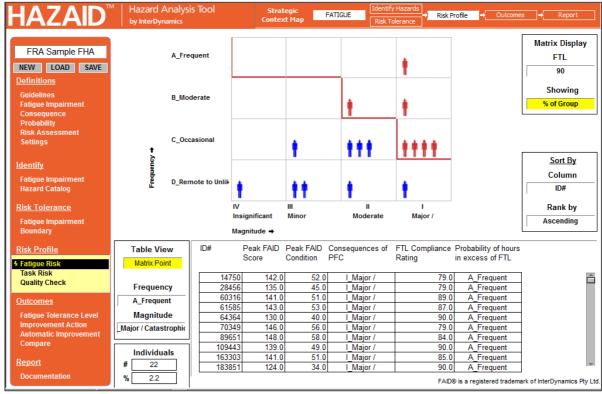


Figure 3 - Risk Profile - Fatigue Risk

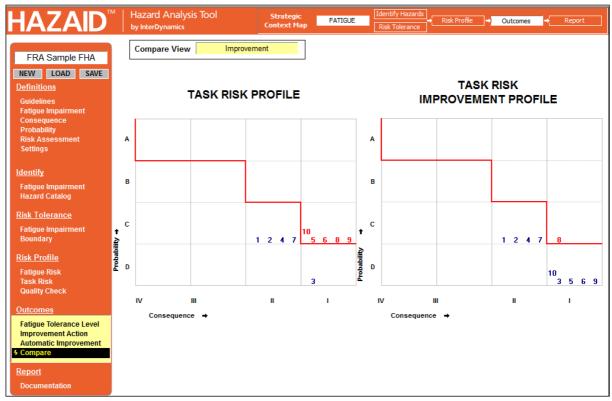


Figure 4 - Risk Profile comparing current to future improvements

Outcomes of a Fatigue Hazard Analysis (FHA) using HAZAID

Outcomes of a FHA include

- Setting of appropriate benchmark figures for FAID Score and KSS Tolerance Levels, and Target Compliance percentages, for specific tasks or roles
- Increased employee engagement and contribution in the identification of acceptable fatigue related risk exposure
 levels, and other necessary controls that can inform the development and continuous improvement of the Fatigue
 Management Plan; leading to the reduction of overall fatigue-related risk, and greater acceptance and effectiveness
 of risk improvement actions (including the use of FAID Quantum)
- Treatments/controls that are transparent, agreed & specific to each team/group/department
- Acceptable & unacceptable fatigue-related risks identified and made clear to all
- Security of knowing that the Fatigue Risk Management component of the Safety Management System is being based on data from objective analysis & organisational experience
- Documented records of outcomes and the level of rigour applied to determining tolerable levels of fatigue related risk exposure and recommended treatments
- Prioritisation for risk reduction investments
- Benchmark data for future review of fatigue-related exposures and controls
- Fatigue Risk Management controls that are transparent, agreed and understood at all levels, and sit above regulatory compliance-based systems
- Increased employee confidence in the ongoing commitment by the organisation to reducing fatigue-related risk through regular reviews and best practice processes
- Improved knowledge and communication through information about fatigue-related risk & scientific facts of sleep deprivation being available to all
- Consistent, repeatable, fatigue-related risk assessment & documentation processes

