



InterSafe

'Hazard / Risk Studies in Design - Designers Training Course

Identifying Potential Damaging Energies during Design

The Design phase (conceptual or detail) of a product / plant / facility presents a unique opportunity to identify and mitigate potential damage for down-stream users (constructors, operators, maintainers). The cost of retrofitting or changing design features during operation is 3 – 10 times the cost of identifying the preferred design features and constructing to that standard at the outset. The role of the Designer is crucial in identifying and mitigating future potential damage.

Many organisations have adopted the scientifically based "Damaging Energy" framework for identifying Hazards in their workplace. This framework is promoted and used by InterSafe in design standards, design reviews, workplace inspections, audits and incident investigations. The Damaging Energy Framework forms the basis of a powerful predictor for future damage during the design process.

Course Objectives:

This course is designed to assist participants to;

1. Understand the Pareto Principle (80/20) and how it applies to design.
2. Understand the Damaging Energies framework and appreciate those Damaging Energies which are most likely to produce fatal or permanent damage in the future construction / use / maintenance of their product / plant / facility from Industry Data (Taxonomies).
3. Evaluate the effectiveness of existing and proposed controls for Human, Gravitational and Vehicle Energies by reference to Haddon's Energy Management Strategies.
4. Become familiar with Risk / Hazard Study techniques – 'What If', 'Checklist', 'HAZOP', 'FMEA'.
5. Evaluate conceptual and detail designs using a Damaging Energy Check List approach. Workplace specific designs can be used as case studies for this step.

Course Detail:

This 2 day course is normally delivered on-site using client training facilities for 12 - 15 persons who are required to participate in Hazard / Risk Study (Potential for Damage Studies) during the design phases.

'Hazard / Risk Studies in Design – Designers' provides a clear process for designers who participate in safety & health reviews during design.

*Contact **Roger Kahler** or **Phillip Byard** on **07 3895 8111** for more details.*

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