

‘Spot the Energies’ Training Course

Identify / Find the Potential Damaging Energies

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 workplace inspections, audits and incident investigations. To effectively apply this framework workers and managers need an appropriate understanding of the framework and more significantly those energies most likely to damage.

InterSafe uses the Analysis Reference Tree-Trunk (ART-T) / Essential Factors models for understanding and analysing damaging occurrences (incidents). This model shows how damage moves from stable (energy in control), to meta-stability (energy marshalled and ready to damage), to unstable (energy out of control), to damage (an energy exchange producing damage). Understanding when energies are **METASTABLE** is crucial in Hazard Identification.

Course Objectives:

This course is designed to assist participants to;

1. Understand the Damaging Energy classification system.
2. Appreciate those Damaging Energies which are most likely to produce fatal or permanent damage in their workplace from Industry Data (Taxonomies).
3. Understand Metastability and how Damaging Energies appear when Metastable.
4. Evaluate the effectiveness of existing and proposed controls based on Haddon’s Energy Management Strategies.
5. Identify the Damaging Energies in the tasks and work that they perform that are Metastable.

Course Participants:

The course is normally delivered on-site using client training facilities for 15 – 20 persons who are required to undertake or supervise those who undertake Job Safety Analysis (JSA’s) / Job Hazard Analysis (JHA’s).

Course Content:

This one day course is customised to the client’s industry. A course overview follows.

‘Spot the Energies’ provides a clear focus for JSA’s / JHA’s

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

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Course Outline

'Spot the Energies' Training Course

1. **Introduction**
2. **Damage as a consequence of an energy exchange**
 - Damaging Energies Classification
 - Dose and examples: Type A, Type B, Type C
3. **Risk of personal damage**
 - The Iceberg Principle de-mystified
 - General industry and industry specific
 - Limitations of near miss reporting
4. **Taxonomy and Dominant damaging energies in fatal and non fatal permanent damage**
 - General industry and industry specific
 - The Pareto Energies – Those Energies most Likely to produce Permanent Damage
5. **The Concept of Metastability**
 - Metastability - a phase of the damaging occurrence timeline
 - Each potential damaging energy is explored in terms of METASTABILITY – Energy marshalled and READY TO DAMAGE
6. **Haddon's Energy Management Strategies**
 - Complementing the Hierarchy of controls
7. **Identifying Energies Ready to Damage during Workplace / Task analysis**
 - Small group workplace / task inspections
 - Whole group review of photographic inspections
 - Discussions regarding effective controls
8. **Conclusion and Evaluation**

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