



InterSafe
Protecting People

Essential Factors™ Incident Analysis Facilitators Course

Why the Essential Factors™ Methodology?

Companies have identified opportunities to improve the data analysis by providing options in relation to the models, tools and methodology that can be utilised within investigations. Some companies have been using Essential Factors™ for a number of years and have found it to be a simple and resource efficient process that focusses on critical controls. This approach is aligned with a Critical Risk programme.



8Steps™

**OF EFFECTIVE INCIDENT
INVESTIGATION**

The 2 day Essential Factors™ incident analysis model is now an approved analysis model within Rio Tinto globally.

Who is the Course for?

The course is designed for HSEC Professional and Operational Superintendent / Specialist participants who may be called upon to facilitate a fatality or SP investigation.

Course notes, case studies, checklists and audit criteria tools are provided to ensure critical issues are more likely to be addressed at each step of the process when real life situations are faced.

The maximum group size for this course is 15 participants. Each day of training is typically 9 hours including breaks.

Course	Fatality Lead* Investigator	SP Lead Investigator	Essential Factors™
Purpose	Lead Investigator - Fatality	Lead Investigator - SP	Analysis Facilitator
Participant	General Manager or equivalent	Manager or equivalent	HSEC Professionals, Supts. or equivalent
8Steps™ Focus	Steps 1 - 4 & 8 in detail Steps 5 - 7 discussed	Steps 1 - 4 & 8 in detail Steps 5 - 7 discussed	Steps 1 - 4 discussed Steps 5 - 8 in detail
Duration	3 days	2 days	2 days (1 day after LI Course)

* Includes fatality scene and team management as well as external stakeholder interface

How is the Essential Factors™ Approach Different to Other Models?

Essential Factors™ The InterSafe Approach	'Cause and Effect' Others Approach
<ol style="list-style-type: none"> 100% / 100% / 100% paradigm: <ul style="list-style-type: none"> 100% of incidents include people factors 100% of incidents include equipment factors 100% of incidents include environmental factors Clear process of description and then analysis Focuses on what 'is' / what 'is not' Lists essential and contributory factors Lists all observations and does not make value judgement of 'rightness' or 'wrongness' of what was observed All essential factors are of equal significance with respect to incident outcome Factors are considered different with respect to controllability Describes what people did / did not do Describes what features of equipment / environment were present / absent Uses ergonomic model – interaction of people with equipment in an environment 	<ol style="list-style-type: none"> 80% / 20% paradigm: <ul style="list-style-type: none"> 80% of incidents are 'caused' by human error / unsafe acts 20% of incidents are 'caused' by the equipment or environment / unsafe conditions Combines description and analysis Focuses on 'causes' and 'effects' Lists causes of accident Can require 'value' judgement of cause before information is recorded (e.g. list of unsafe conditions) Factors are not considered equal with respect to causation Ranks causes by most easily recognised factor or most easily corrected factor Describes errors and failures of people Describes what equipment failed Has egocentric bias – unsafe acts / behaviours

What the Course Covers

The 2 day Essential Factors™ Course covers the following models and concepts which underpin an effective investigation process.

1. Scientific Process and Incident Investigation
2. Egocentric vs. Ergonomic Model
3. Thinking vs. Feeling Model
4. ART-T™ Timeline Model for Incident Sequences
5. Essential Factors™ Thinking and Analysis
6. Identify Controllable Factors
7. Identify Predisposing Factors
8. VAACS Model for effective recommendations

The course also includes practical application of the theory using case studies. Specific examples and learnings from previous investigations are also provided to reinforce the content.

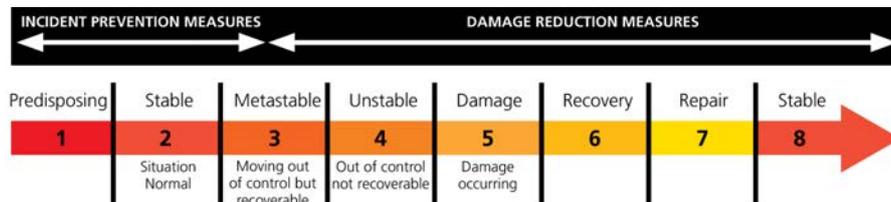


Other Services

InterSafe is also able to assist with site incident investigations in the following ways:

- Independent investigation
- Lead Site team
- Coach / mentor site team leader
- Provide process or content expertise
- Review incident investigation reports

Essential Factors™ Applied at Each Stage of the Timeline



A New Approach to Incident Analysis

InterSafe uses this powerful and effective Essential Factors™ incident analysis model:

- For incidents resulting in minor, temporary or permanent damage (including fatality)
- To conduct external, independent investigations
- To facilitate on-site investigation teams



Next Steps

If you would like to discuss an **Essential Factors™ Analysis Facilitators Course** please contact:

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Who is InterSafe?

InterSafe specialises in incident investigation to Engineer Safer Workplace Solutions. InterSafe has assisted our clients in effectively controlling the future through preparation of more than 10,000 comprehensive incident reports (dealing mostly with fatal/permanently disabling occurrences) throughout 60 years of collective experience.

This experience has led to a unique way of thinking about, investigating and preventing incidents. InterSafe shares these powerful and effective investigation models and techniques through a range of courses and services.



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