Fault Tree and Event Tree Analysis

What's the purpose?
To enable participants to understand the principles of fault and event tree analysis and to perform their own assessments. The module looks at the development of fault tree and event tree models and populating them with suitable reliability data, human errors and dependent failures. It then considers quantification of the models and how they can be used to evaluate potential improvements.

Who is this for?
Managers, engineers, operators, HSE advisors and risk management practitioners.

What does it cover?
- Introduction to Fault Tree Analysis
- Fault Tree construction
- Minimal cut sets
- Basic event reliability data
- Dependent failures and human errors
- Fault Tree quantification
- Fault Tree analysis advantages & disadvantages
- Introduction to event tree analysis
- Event Tree construction and quantification
- Fault and Event Tree software

After completing the module you should be able to:
1. Consider when it is appropriate to apply fault tree analysis and event tree analysis
2. Design and analyse fault tree models incorporating appropriate reliability data for components, human error and dependent failures
3. Generate and analyse event tree models.

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<thead>
<tr>
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<th>Hours</th>
<th>Delivery Methods</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Face-to-face</td>
<td>Distance learning</td>
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<tr>
<td>Postgraduate</td>
<td>80</td>
<td>2 days, followed by assessment</td>
<td>8 weeks duration</td>
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<tr>
<td>Risktec CPD</td>
<td>15</td>
<td>2 days, followed by assessment</td>
<td>8 weeks duration</td>
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<tr>
<td>Attendance only</td>
<td>15</td>
<td>2 days</td>
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If you are a corporate client and would like a customised delivery, please contact the training team to discuss your requirements.

What prior study is recommended?
Education, skills or experience equivalent to undergraduate level. Risktec module: Principles of Risk Management