What’s the purpose?
The purpose of this module is to enable students to understand and apply QRA techniques with particular relevance to the oil and gas and process industries. Students will be given an opportunity to conduct QRA for example oil and gas and process facilities. The module also covers risk criteria, application of the ALARP principle, sensitivity analysis and cost benefit analysis.

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

What does it cover?
- Introduction to QRA
- Identify release scenarios
- Frequency assessment, event trees
- Consequence modelling (including immediate and time-dependent effects)
- Risk analysis
- Non-process hazards
- Risk criteria
- Sensitivity studies
- QRA software

After completing the module you should be able to:
1. Design QRA models incorporating appropriate input data and assumptions
2. Use QRA to analyse the risk to personnel
3. Compare QRA results with criteria and use to devise and evaluate potential risk reduction measures

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<tr>
<th></th>
<th>Hours</th>
<th>Delivery Methods</th>
<th>Distance learning</th>
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</thead>
<tbody>
<tr>
<td>Postgraduate</td>
<td>80</td>
<td>2 days, followed by assessment</td>
<td>8 weeks duration</td>
</tr>
<tr>
<td>Risktec CPD</td>
<td>15</td>
<td>2 days, followed by assessment</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.