

HEALTH SAFETY AND ENVIRONMENT | HSE-010

Incident Investigation and Root Cause Analysis for HSE

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Course content

Why Attend

Organisations that investigate incidents well learn from them and prevent recurrence. Poor investigations blame individuals, miss systemic causes and allow the same events to happen again.

This Aractech course teaches a structured approach to HSE incident investigation: initial response, evidence collection, witness interviews, timeline reconstruction, root cause analysis using recognised techniques, human factors, corrective actions and report writing. Participants investigate a realistic case from start to finish.

Course Methodology

- Full investigation case study
- Interview role plays
- Root cause analysis workshops
- Report writing exercises
- Group feedback

Course Objectives

- Respond correctly to incidents and preserve evidence
- Plan and lead incident investigations
- Interview witnesses effectively
- Apply root cause analysis techniques
- Consider human factors and organisational causes
- Write clear reports and effective corrective actions

Target Audience

- HSE professionals

Course content

- Supervisors and managers
- Investigation team members
- Operations and maintenance engineers

Course outline

Detailed course outline

Day-by-day outline for Incident Investigation and Root Cause Analysis for HSE.

Day 1 - Investigation Fundamentals

- 09:00-09:39 | Purpose of investigation
- 09:39-10:18 | Incident classification
- 10:18-10:57 | Legal considerations
- 10:57-11:00 | Investigation team
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Investigation team (continued)
- 12:05-12:43 | Just culture
- 12:43-14:00 | Exercise: Classifying incidents

Day 2 - Evidence and Interviews

- 09:00-09:34 | Scene management
- 09:34-10:08 | Physical and documentary evidence
- 10:08-10:42 | Photographs and sketches
- 10:42-11:00 | Witness interviews
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Witness interviews (continued)
- 11:46-12:53 | Timeline building
- 12:53-14:00 | Role play: Witness interviews

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Day 3 - Root Cause Analysis

- 09:00-09:39 | Immediate, underlying and root causes
- 09:39-10:18 | Five whys
- 10:18-10:57 | Fishbone diagrams
- 10:57-11:00 | Fault tree and barrier analysis
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Fault tree and barrier analysis (continued)
- 12:05-12:43 | Choosing techniques
- 12:43-14:00 | Workshop: RCA on the case

Day 4 - Human and Organisational Factors

- 09:00-09:39 | Human error types
- 09:39-10:18 | Violations
- 10:18-10:57 | Organisational factors
- 10:57-11:00 | Fatigue and workload
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Fatigue and workload (continued)
- 12:05-12:43 | Avoiding blame
- 12:43-14:00 | Case study: Organisational accident

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Day 5 - Actions and Reporting

- 09:00-09:45 | Effective corrective actions
- 09:45-10:30 | SMART actions
- 10:30-11:00 | Report writing
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Report writing (continued)
- 11:45-12:30 | Sharing lessons
- 12:30-13:15 | Tracking close-out
- 13:15-14:00 | Capstone: Investigation report

Seminar dates

Available seminar dates

Live dates and pricing for Incident Investigation and Root Cause Analysis for HSE generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	London	Classroom	€2,315
14 - 18 December 2026	Istanbul	Classroom	€1,978
18 - 22 January 2027	London	Classroom	€2,315
15 - 19 February 2027	Geneva	Classroom	€4,315
15 - 19 March 2027	Rome	Classroom	€3,460
19 - 23 April 2027	Munich	Classroom	€3,225
17 - 21 May 2027	Amsterdam	Classroom	€2,830
21 - 25 June 2027	London	Classroom	€2,315
19 - 23 July 2027	Istanbul	Classroom	€1,978
16 - 20 August 2027	London	Classroom	€2,315

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18 - 22 October 2027	Rome	Classroom	€3,460
15 - 19 November 2027	Munich	Classroom	€3,225
20 - 24 December 2027	Amsterdam	Classroom	€2,830
9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
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19 - 23 April 2027	Online / Live	Online / Live	€1,815

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21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
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