

IT MANAGEMENT AND CYBER SECURITY | IMCS-028

Cyber Risk Quantification

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Course content

Why Attend

Boards and executives increasingly want cyber risk expressed in financial terms so they can compare it with other risks and make informed investment decisions. Traditional heat maps rarely provide that clarity.

This Aractech course explains cyber risk quantification approaches, scenario definition, estimating frequency and loss magnitude, Monte Carlo analysis, using quantification to prioritise controls and insurance, and communicating results. Participants quantify cyber risk scenarios with spreadsheet models.

Course Methodology

- Concept sessions
- Spreadsheet modelling
- Scenario workshops
- Case studies
- Presentation practice

Course Objectives

- Explain the limits of qualitative cyber risk ratings
- Define cyber risk scenarios
- Estimate frequency and loss magnitude
- Apply Monte Carlo simulation
- Use quantification for investment and insurance decisions
- Communicate quantified risk to leadership

Target Audience

- Cyber risk managers
- Information security managers

Course content

- Enterprise risk managers
- Finance professionals

Course outline

Detailed course outline

Day-by-day outline for Cyber Risk Quantification.

Day 1 - Quantifying Cyber Risk

- 09:00-09:39 | Why quantify
- 09:39-10:18 | Heat map limitations
- 10:18-10:57 | Approaches
- 10:57-11:00 | Key concepts
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Key concepts (continued)
- 12:05-12:43 | Data sources
- 12:43-14:00 | Exercise: Current risk register review

Day 2 - Scenarios

- 09:00-09:39 | Scenario definition
- 09:39-10:18 | Assets and threats
- 10:18-10:57 | Loss events
- 10:57-11:00 | Scope
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Scope (continued)
- 12:05-12:43 | Prioritising scenarios
- 12:43-14:00 | Workshop: Scenario definition

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Day 3 - Estimation

- 09:00-09:39 | Frequency estimation
- 09:39-10:18 | Loss magnitude
- 10:18-10:57 | Calibrated estimates
- 10:57-11:00 | Expert judgement
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Expert judgement (continued)
- 12:05-12:43 | Ranges
- 12:43-14:00 | Exercise: Estimating losses

Day 4 - Simulation and Decisions

- 09:00-09:45 | Monte Carlo basics
- 09:45-10:30 | Loss exceedance curves
- 10:30-11:00 | Control value analysis
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Control value analysis (continued)
- 11:45-12:30 | Insurance decisions
- 12:30-14:00 | Lab: Monte Carlo model

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Day 5 - Communication

- 09:00-09:39 | Board reporting
- 09:39-10:18 | Integrating with ERM
- 10:18-10:57 | Limitations
- 10:57-11:00 | Programme development
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Programme development (continued)
- 12:05-13:22 | Case study: Quantification in practice
- 13:22-14:00 | Capstone: Quantified risk report

Seminar dates

Available seminar dates

Live dates and pricing for Cyber Risk Quantification generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Barcelona	Classroom	€2,815
21 - 25 December 2026	London	Classroom	€2,315
18 - 22 January 2027	Paris	Classroom	€3,825
15 - 19 February 2027	Frankfurt	Classroom	€1,875
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Frankfurt	Classroom	€1,875
17 - 21 May 2027	Rome	Classroom	€3,460
21 - 25 June 2027	Kuala lumpur	Classroom	€1,925
19 - 23 July 2027	Barcelona	Classroom	€2,815
16 - 20 August 2027	Geneva	Classroom	€4,315

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18 - 22 October 2027	Frankfurt	Classroom	€1,875
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20 - 24 December 2027	Frankfurt	Classroom	€1,875
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
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