

aractech

Global Learning for Operational Leaders



IT MANAGEMENT AND CYBER SECURITY | IMCS-014

Penetration Testing and Vulnerability Management Fundamentals

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Course content

Why Attend

Attackers continually scan for vulnerabilities in systems, applications and configurations. Organisations need structured vulnerability management and periodic penetration testing to find and fix weaknesses first.

This Aractech course explains the vulnerability management life cycle, scanning tools, risk-based prioritisation, patching, penetration testing types and methodology, scoping and rules of engagement, interpreting test reports and managing remediation. Participants plan a vulnerability programme and review penetration test findings.

Course Methodology

- Technical presentations
- Tool demonstrations
- Report review exercises
- Prioritisation workshops
- Case studies

Course Objectives

- Explain the vulnerability management life cycle
- Plan and run vulnerability scanning
- Prioritise vulnerabilities by risk
- Understand penetration testing types and methods
- Scope and manage penetration tests
- Track remediation and measure programme effectiveness

Target Audience

- IT security professionals

Course content

- System and network administrators
- IT managers
- Security analysts

Course outline

Detailed course outline

Day-by-day outline for Penetration Testing and Vulnerability Management Fundamentals.

Day 1 - Vulnerability Management

- 09:00-09:39 | Vulnerability concepts
- 09:39-10:18 | Life cycle
- 10:18-10:57 | Asset inventory
- 10:57-11:00 | Scanning tools
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Scanning tools (continued)
- 12:05-12:43 | Programme governance
- 12:43-14:00 | Exercise: Programme design

Day 2 - Prioritisation and Remediation

- 09:00-09:39 | Severity scoring
- 09:39-10:18 | Risk-based prioritisation
- 10:18-10:57 | Patch management
- 10:57-11:00 | Compensating controls
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Compensating controls (continued)
- 12:05-12:43 | Exceptions
- 12:43-14:00 | Workshop: Prioritising findings

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Day 3 - Penetration Testing

- 09:00-09:39 | Types of testing
- 09:39-10:18 | Methodology
- 10:18-10:57 | Scoping
- 10:57-11:00 | Rules of engagement
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Rules of engagement (continued)
- 12:05-12:43 | Legal considerations
- 12:43-14:00 | Exercise: Test scope

Day 4 - Understanding Test Results

- 09:00-09:34 | Common findings
- 09:34-10:08 | Exploitation chains
- 10:08-10:42 | Reading reports
- 10:42-11:00 | Retesting
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Retesting (continued)
- 11:46-12:53 | Case study: Pen test report
- 12:53-14:00 | Exercise: Remediation plan

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Day 5 - Programme Effectiveness

- 09:00-09:45 | Metrics
- 09:45-10:30 | Reporting
- 10:30-11:00 | Continuous testing
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Continuous testing (continued)
- 11:45-12:30 | Bug bounty overview
- 12:30-13:15 | Improvement
- 13:15-14:00 | Capstone: Vulnerability management roadmap

Seminar dates

Available seminar dates

Live dates and pricing for Penetration Testing and Vulnerability Management Fundamentals generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Barcelona	Classroom	€2,815
21 - 25 December 2026	Dubai	Classroom	€1,845
18 - 22 January 2027	Cape Town	Classroom	€1,625
15 - 19 February 2027	Amsterdam	Classroom	€2,830
15 - 19 March 2027	London	Classroom	€2,315
19 - 23 April 2027	Istanbul	Classroom	€1,978
17 - 21 May 2027	Munich	Classroom	€3,225
21 - 25 June 2027	Paris	Classroom	€3,825
19 - 23 July 2027	Frankfurt	Classroom	€1,875
16 - 20 August 2027	Kuala Lumpur	Classroom	€1,925

Seminar dates

Available seminar dates

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Date	Location	Format	Fee
20 - 24 September 2027	Rome	Classroom	€3,460
18 - 22 October 2027	Vienna	Classroom	€3,225
15 - 19 November 2027	Geneva	Classroom	€4,315
20 - 24 December 2027	Madrid	Classroom	€3,400
16 - 20 November 2026	Online / Live	Online / Live	€1,815
21 - 25 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
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

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Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
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
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
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