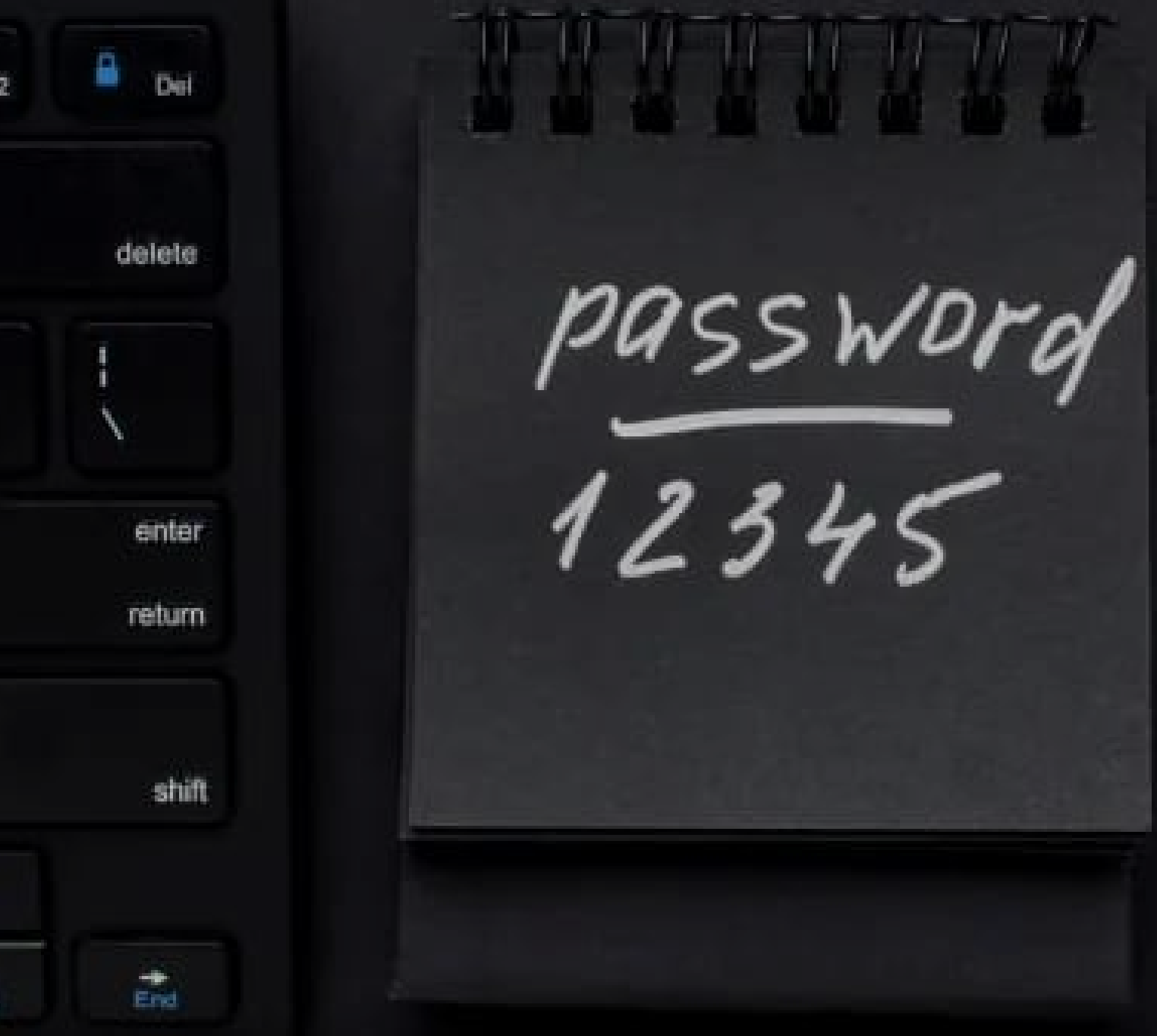




IT MANAGEMENT AND CYBER SECURITY | IMCS-027

Application Security and Secure Software Development

Contact

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Address

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Course content

Why Attend

Many breaches exploit vulnerabilities in applications and APIs. Building security into software development is far more effective and cheaper than fixing problems after release.

This Aractech course covers common application vulnerabilities, secure design principles, threat modelling, secure coding practices, security testing including static and dynamic analysis, API security, software supply chain security and integrating security into DevOps. Participants perform threat modelling and review code examples.

Course Methodology

- Technical presentations
- Threat modelling workshop
- Code review exercises
- Tool demonstrations
- Case studies

Course Objectives

- Explain common application vulnerabilities
- Apply secure design and threat modelling
- Use secure coding practices
- Integrate security testing into development
- Secure APIs and software supply chains
- Build a secure development life cycle

Target Audience

- Software developers

Course content

- Application architects
- Security engineers
- DevOps engineers

Course outline

Detailed course outline

Day-by-day outline for Application Security and Secure Software Development.

Day 1 - Application Security Fundamentals

- 09:00-09:34 | Why applications are attacked
- 09:34-10:08 | Common vulnerabilities
- 10:08-10:42 | Security principles
- 10:42-11:00 | Secure development life cycle
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Secure development life cycle (continued)
- 11:46-12:53 | Case study: Application breach
- 12:53-14:00 | Exercise: Vulnerability examples

Day 2 - Secure Design

- 09:00-09:34 | Threat modelling
- 09:34-10:08 | Architecture risks
- 10:08-10:42 | Authentication and authorisation
- 10:42-11:00 | Data protection
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Data protection (continued)
- 11:46-12:53 | Design reviews
- 12:53-14:00 | Workshop: Threat model

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Day 3 - Secure Coding

- 09:00-09:39 | Input validation
- 09:39-10:18 | Output encoding
- 10:18-10:57 | Session management
- 10:57-11:00 | Error handling
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Error handling (continued)
- 12:05-12:43 | Secrets management
- 12:43-14:00 | Exercise: Code review

Day 4 - Security Testing

- 09:00-09:39 | Static analysis
- 09:39-10:18 | Dynamic analysis
- 10:18-10:57 | Dependency scanning
- 10:57-11:00 | Penetration testing
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Penetration testing (continued)
- 12:05-12:43 | API testing
- 12:43-14:00 | Demonstration: Testing tools

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Day 5 - DevSecOps

- 09:00-09:45 | Pipeline integration
- 09:45-10:30 | Software supply chain
- 10:30-11:00 | Metrics
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Metrics (continued)
- 11:45-12:30 | Training developers
- 12:30-13:15 | Roadmap
- 13:15-14:00 | Capstone: Secure SDLC plan

Seminar dates

Available seminar dates

Live dates and pricing for Application Security and Secure Software Development generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Barcelona	Classroom	€2,815
2 - 6 November 2026	London	Classroom	€2,315
21 - 25 December 2026	Barcelona	Classroom	€2,815
21 - 25 December 2026	Munich	Classroom	€3,225
18 - 22 January 2027	London	Classroom	€2,315
15 - 19 February 2027	Istanbul	Classroom	€1,978
15 - 19 March 2027	Vienna	Classroom	€3,225
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	Paris	Classroom	€3,825
21 - 25 June 2027	Frankfurt	Classroom	€1,875

Seminar dates

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Date	Location	Format	Fee
19 - 23 July 2027	Barcelona	Classroom	€2,815
16 - 20 August 2027	Barcelona	Classroom	€2,815
20 - 24 September 2027	Frankfurt	Classroom	€1,875
18 - 22 October 2027	Barcelona	Classroom	€2,815
15 - 19 November 2027	Frankfurt	Classroom	€1,875
20 - 24 December 2027	Rome	Classroom	€3,460
2 - 6 November 2026	Online / Live	Online / Live	€1,815
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815

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