

Day 1 : Introduction to Application Security

- Course objectives and structure
- Standards and regulatory frameworks
- Validation process
- Fundamental principles of Application Security
- Application Security overview

Day 2 : Preparation and launching of an Application Security audit

- Risks that businesses face from application threats
- Understanding vulnerabilities
- Discovering vulnerabilities
- Testing methodologies
- Session management
- Authentication issues
- Authorization issues
- Specification of the tools

Day 3 : Application Security audit activities

- Application Security best practices
- Code assessment techniques
- Analyzing the flow of information all over the application environment
- Validation of data
- Cryptography
- Dynamic/Fuzz testing
- Define quality gates/bug bar
- Analyze security and privacy risk

Day 4 : Closing an Application Security audit

- Verify threat models/attack surface
- Threat modeling
- Enforce banned functions
- Static analysis

- Response plan
- Final security review
- Competence and evaluation of auditors
- Closing the training

Day 5 : Certification Exam