Empowering developers to build secure software and organizations to drive secure behavior

Product overview
Synopsys eLearning is an outcome-driven, learner-centric training solution that makes learning about security easy, relevant, and accessible. Learners have on-demand access to an immersive, continuous learning ecosystem that unifies security expertise, instructional design, and storytelling into an intuitive platform. By learning in an ideal environment for retaining and applying skills, developers gain the security competency they need to help their organizations achieve security compliance.

Key features
Synopsys has revolutionized the software security learning experience by employing key features and techniques that enhance content discovery and engage active learning.

Single sign-on support
Synopsys eLearning supports single sign-on (SSO) through LDAP, Active Directory, and SAML, enabling quick user onboarding and large-scale deployments.
Synopsys eLearning harnesses interactive mechanics that drive learner adoption, progression, and knowledge retention:

- Best-of-breed instructional design
- Animated walk-throughs
- Case studies of real-world exploits
- Technical deep dives
- Frequent knowledge checks and assessments

Synopsys eLearning also integrates with discussion forums to enable learners to collaborate and socially reflect.

Near real-time learner and administrative reporting

Synopsys eLearning offers robust reporting capabilities for both learners and administrators.

**Learners**

- Course completion
- Curriculum progress
- Assessments passed
- Feedback tracking and scoring

**Administrators**

- Engagement and product usage
- Cohort progress
- Leaderboards
- Custom notifications

We also provide API support for reporting, offering the freedom to port data to your internal data warehouse for additional analysis and reporting.

Mobile responsiveness for on-the-go learning

Meet the needs of modern learners by making software security training accessible when they are on the go. Learners have 24/7 on-demand access to training, so they can refresh their knowledge of concepts or meet course objectives in just 5–10 minutes.

Training by role, team, and project

Organize users into cohorts to assign curricula based on role, team, or project. With Synopsys eLearning’s self-service administration portal, organizations can provision tracks and manage learning within minutes.

Synopsys offers security courses relevant to a wide range of roles, teams, and projects:

- Software security fundamentals
- Language- and platform-specific instruction
- Mobile application security
- Security enablement
- Requirements, architecture, and testing
- And more

SCORM compliant

Synopsys eLearning courses are SCORM 1.2 compliant. Consume our courses within your SCORM 1.2–compliant learning management system to augment your existing library and design your own curriculum.
eLearning | Technical Specification

Updated 8.8.1 Release (04/02/2020)

Fundamentals
- Principles of Software Security
- Foundations of Information Security Awareness
- OWASP Top 10 (2017)
- Attack and Defense
- Introduction to Cryptography for Developers and Architects
- DevSecOps Security

Defensive Strategies
- Secure Password Storage
- Architecture Risk Analysis
- Threat Modeling
- Introduction to Automotive Security

Languages and Platforms
- C/C++ Security
- Foundations of COBOL Security
- Defensive Programming for COBOL
- Introduction to HTML5 Security
- Defensive Programming for HTML5 Security
- Java Security Fundamentals
- Java Advanced Secure Coding
- Defensive Programming for Java EE Web Applications
- Java Spring Security
- JavaScript Security
- Node.js Security
- React.js Security
- Securing AngularJS
- Securing Express.js
- Securing MongoDB
- Foundations of .NET Platform Security
- Building Security into ASP.NET MVC With C#
- Introduction to PHP Security
- Defensive Programming for PHP Security
- Securing Python Web Applications

Cloud Platforms
- Securing Amazon Web Services
- Secure Implementation of Docker and Kubernetes
- Securing Microsoft Azure
- Introduction to Cloud Security

Authentication and Authorization
- OAuth 2.0 Security
- SAML Security
- OpenID Connect
- Securely Accessing APIs Using OAuth 2.0
- Securely Granting Access to an API using OAuth 2.0
- Advanced OAuth 2.0 Topics

Mobile
- Foundations of Mobile Security
- Android Security
- Fundamentals of iOS
- Secure Programming for iOS

Requirements, Architecture, and Training
- Software Security Requirements
- Secure Development for Financial Services
- Risk-Based Security Testing

Regulation and Compliance
- PCI DSS Security
- Introduction to GDPR
- GDPR for Developers and Architects
- GDPR for Upper Management
- GDPR for Development and Project Managers

Microcourses
- Hapi.js Security

Available in multiple languages
Synopsys eLearning courses are available in English, Chinese, and Japanese. Users can experience Synopsys eLearning in their preferred language, while receiving the same education as their peers.
Synopsys helps development teams build secure, high-quality software, minimizing risks while maximizing speed and productivity. Synopsys, a recognized leader in application security, provides static analysis, software composition analysis, and dynamic analysis solutions that enable teams to quickly find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior. With a combination of industry-leading tools, services, and expertise, only Synopsys helps organizations optimize security and quality in DevSecOps and throughout the software development life cycle.

For more information, go to www.synopsys.com/software.

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