Information Assurance (DISA STIG) Overview (TT8800)

Category: Networking & Security | **Vendor:** Trivera Tech

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The®Information Assurance (STIG) Overview®is a comprehensive two-day course that delves into the realm of Information Assurance, empowering you to enhance your cybersecurity skills, understand the essentials of STIGs, and discover cutting-edge web application security practices. This immersive experience is tailored for IT professionals, developers, project teams, technical leads, project managers, testing/QA personnel, and other key stakeholders who seek to expand their knowledge and expertise in the evolving cybersecurity landscape.®

About This Course

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Assurance, empowering you to enhance your cybersecurity skills, understand the essentials of STIGs, and discover cuttingedge web application security practices. This immersive experience is tailored for IT professionals, developers, project teams, technical leads, project managers, testing/QA personnel, and other key stakeholders who seek to expand their knowledge and expertise in the evolving cybersecurity landscape. The course focuses on the intricacies of best practices for design, implementation, and deployment, inspired by the diverse and powerful STIGs, ultimately helping participants become more proficient in application security.

The first half of the course covers the foundations of DISA's Security Technical Implementation Guides (STIGs) and learn the ethical approach to bug hunting, while exploring the language of cybersecurity and dissecting real-life case studies. Our expert instructors will guide you through the importance of respecting privacy, working with bug bounty programs, and avoiding common mistakes in the field.

The next half delves into the core principles of information security and application protection, as you learn how to identify and mitigate authentication failures, SQL injections, and cryptographic vulnerabilities. You'll gain experience with STIG walkthroughs and discover the crucial steps for securing web applications.

Throughout the course, you'll also explore the fundamentals of application security and development, including checklists, common practices, and secure development lifecycle (SDL) processes. You'll learn from recent incidents and acquire actionable strategies to strengthen your project teams and IT organizations. You'll also have the opportunity to explore asset analysis and design review methodologies to ensure your organization is prepared to face future cybersecurity challenges.

Note: For a deeper (or next-step) exploration of STIGs and Application Security attendees might consider the five-day course TT8815: Understanding and Verifying ASD STIGs

Who Should Attend

The content is appropriate for IT professionals, Developers, Software engineers, technical leads, Project managers, Testing/QA personnel or other key stakeholders .

Prerequisites & Entry Requirements

General Prerequisites:

While specific prerequisites may vary depending on the course provider and the targeted audience, a general set of prerequisites for attending a course on Information Assurance and STIGs could include:

- Basic understanding of information security concepts and terminology.
- Familiarity with web application architecture and development.
- Knowledge of networking and web protocols (e.g., HTTP, HTTPS, TCP/IP).
- Experience with programming languages commonly used in web application development, such as JavaScript, Python,
Java, or C# would be helpful but not required, as this is not a hands-on class.
- A general understanding of operating systems, databases, and web servers.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Working in an interactive learning environment, guided by our application security expert, you'll explore:

- the concepts and terminology behind defensive coding
- Threat Modeling as a tool in identifying software vulnerabilities based on realistic threats against meaningful assets
- the entire spectrum of threats and attacks that take place against software applications in today's world
- the role that static code reviews and dynamic application testing to uncover vulnerabilities in applications
- the vulnerabilities of programming languages as well as how to harden installations
- the basics of Cryptography and Encryption and where they fit in the overall security picture
- the requirements and best practices for program management as specified in the STIGS
- the processes and measures associated with the Secure Software Development (SSD)
- the basics of security testing and planning

Detailed Course Outline

Session: STIG Foundation

Lesson: DISA's Security Technical Implementation Guides (STIGs)

The motivations behind STIGs

Requirements that the various software development roles must meet

Implementing STIG requirements and guidelines

Lab: Exploring the STIG Viewer

Lesson: Why Hunt Bugs

The Language of Cybersecurity

The Changing Cybersecurity Landscape

AppSec Dissection of SolarWinds

The Human Perimeter

Interpreting the 2021 Verizon Data Breach Investigation Report

First Axiom in Web Application Security Analysis

First Axiom in Addressing ALL Security Concerns

Lab: Case Study in Failure

Session: Foundation for Securing Web Applications

Lesson: Identification and Authentication Failures

Applicable STIGs

Quality and Protection of Authentication Data

Proper hashing of passwords

Handling Passwords on Server Side

Session Management

HttpOnly and Security Headers

Lab: STIG Walk-Throughs

Lesson: Injection

Applicable STIGs

Injection Flaws

SQL Injection Attacks Evolve

Drill Down on Stored Procedures

Other Forms of Server-Side Injection

Minimizing Injection Flaws

Client-side Injection: XSS

Persistent, Reflective, and DOM-Based XSS

Best Practices for Untrusted Data

Lab: STIG Walk-Throughs

Lesson: Database Security

Design and Configuration

Identification and Authentication

Computing Environment

Database Auditing

Boundary Defenses

Continuity of Service

Vulnerability and Incident Management

Lab: STIG Walk-Throughs

Session: Moving Forward

Lesson: Applications: What Next

Common Vulnerabilities and Exposures

CWE/SANS Top 25 Most Dangerous SW Errors

Strength Training: Project Teams/Developers

Strength Training: IT Organizations

Lesson: Cryptographic Failures

Applicable STIGs

Identifying Protection Needs

Evolving Privacy Considerations

Options for Protecting Data

Transport/Message Level Security

Weak Cryptographic Processing

Keys and Key Management

Threats of Quantum Computing

Steal Now, Crack Later Threat

Lab: STIG Walk-Throughs

Session: Moving Forward with Application Security

Lesson: Application Security and Development Checklists

Checklist Overview, Conventions, and Best Practices

Leveraging Common AppSec Practices and Control

Actionable Application Security

Additional Tools for the Toolbox

Strength Training: Project Teams/Developers

Strength Training: IT Organizations

Lab: Recent Incidents

Time Permitting

Session: Secure Development Lifecycle (SDL)

Lesson: Principles of Information Security

Security Is a Lifecycle Issue

Minimize Attack Surface Area

Layers of Defense: Tenacious D

Compartmentalize

Consider All Application States

Do NOT Trust the Untrusted

Lab: Risk Escalators

Additional Course Details

Nexus Humans Information Assurance (DISA STIG) Overview (TT8800) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Information Assurance (DISA STIG) Overview (TT8800) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Information Assurance (DISA STIG) Overview (TT8800)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Information Assurance (DISA STIG) Overview (TT8800) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Information Assurance (DISA STIG) Overview (TT8800) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Information Assurance (DISA STIG) Overview (TT8800)?

Yes, we provide corporate training, dedicated training, and closed classes for Information Assurance (DISA STIG) Overview (TT8800). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: STIG; Security

Q: Why choose Nexus Human for Information Assurance (DISA STIG) Overview (TT8800)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Information Assurance (DISA STIG) Overview (TT8800) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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