

LDR516: Strategic Vulnerability and Threat Management™

5 | 30 | Laptop
Day Program | CPEs | Required

You Will Be Able To

- Build and evolve vulnerability management programs across traditional, cloud, IoT, and hybrid environments
- Prioritize vulnerabilities using business-aligned context and threat intelligence
- Develop and apply VM metrics to measure program maturity, demonstrate risk reduction, and drive stakeholder support
- Design remediation strategies that include patching, compensating controls, and automation
- Communicate vulnerability risk effectively to executives, technology, security and other business units
- Align VM with frameworks like NIS2, NIST, HIPAA, GDPR, and CRA for sustainable governance

Business Takeaways

- Assess maturity and gaps in your organization's VM program
- Prepare for critical vulnerabilities and zero-day exposures
- Prioritize security investments using contextual risk models
- Translate technical findings into executive-level insights
- Use vulnerability grouping to uncover hidden risks and blockers
- Implement metrics and dashboards to drive compliance and performance
- Design proactive remediation workflows and future-ready programs

Strategic Vulnerability Management for Modern Enterprises

Whether you're starting from scratch or modernizing an enterprise-scale vulnerability management (VM) program, LDR516™ provides the strategies, tools, and insights to make your efforts more impactful. This course helps you move beyond checkbox compliance and endless scan results, focusing instead on risk-based prioritization, stakeholder communication, and real-world remediation.

LDR516™ equips security professionals with the ability to lead and evolve VM initiatives across traditional, cloud, and hybrid environments. With an emphasis on business alignment, threat modeling, and metrics that matter, you'll learn how to turn raw vulnerability data into clear decisions and measurable outcomes. Over five days, you'll complete 16 interactive exercises, including 11 AI-enhanced hands-on labs and five strategic rounds of the Cyber42 leadership simulation game, giving you both tactical and strategic experience in risk reduction.

You'll explore modern frameworks such as Continuous Threat Exposure Management (CTEM), risk scoring using EPSS and threat intelligence (e.g., CISA KEV, MITRE ATT&CK), and context-aware prioritization based on asset criticality. The course also teaches you how to design metrics, influence executive stakeholders, and overcome challenges like limited resources, fragmented ownership, and culture resistance.

Interactive Exercises

LDR516 emphasizes learning by doing, with 16 interactive, hands-on modules that simulate real-world VM challenges. These hands-on exercises are embedded throughout the course and designed to build both technical skills and leadership capabilities.

- **Five AI-Powered Labs**—Use AI to generate executive summaries, prioritize vulnerabilities, assess remediation outcomes, and design exposure management strategies.
- **Tool-Based Exercises**—Work with tools like GitHub Actions, Ansible, InSpec, Packer, and secure pipeline integrations to automate discovery and remediation.
- **Governance and Communication Labs**—Create board-level briefings, policy improvements, stakeholder messaging, and context-driven reporting workflows.
- **Cyber42 Simulation**—Participate in a five-round leadership game woven into each course section. You'll face 13 strategic challenges requiring prioritization, cross-functional collaboration, and decision making under pressure.

These labs are built to reflect the complexity of real enterprise environments—across cloud, traditional, and hybrid architectures—so you leave with skills you can apply immediately.

“This course is essential for both well-established and developing vulnerability management teams.”

—Robert Adams, CBC

“A great course to utilize if new to cloud vulnerability management.”

—Amaan Mughal

Section Descriptions

SECTION 1: Building the Blueprint for VM Success

This section covers the foundations of VM lifecycle, asset inventory, and attack surface visibility. Section 1 emphasizes leadership alignment and cloud-aware program design. It includes Cyber42 Round 1 and labs on defining VM values and communicating critical flaws.

TOPICS: Foundation of VM; Business Alignment, Common Challenges, Asset Management; Vulnerability Analysis

SECTION 3: Communicating Risk and Driving Action in VM

Section 3 focuses on interpreting vulnerability data, prioritizing in context, and communicating with executives and stakeholders. The labs include contextual prioritization, executive translation, and board briefings. Cyber42 Round 3 is also included.

TOPICS: Risk-Based and Strategic Metrics; Reporting Automation; Communications; Culture Change; Incident Response Integration

SECTION 5: The Future of VM – Proactive Defense and CTEM

Section 5 centers on future-proofing programs through CTEM, stakeholder mapping, and governance evolution. Labs focus on attack path modeling, CTEM design, and gaining executive buy-in. It concludes with Cyber42 Round 5.

TOPICS: Proactive VM; CTEM; Change Adaption; Emerging Risks and Technology

SECTION 2: Mastering the Art of Prioritization and Remediation

Section 2 explores scanning strategies, tool integration, and modern discovery challenges across infrastructure and applications. It includes Cyber42 Round 2 and labs on scanning techniques, validation, and pipeline integration.

TOPICS: Prioritization Strategies; Remediation Approaches; Risk Acceptance

SECTION 4: Navigating Compliance, Crisis, and Governance in VM

Section 4 balances compliance and risk-based strategies, strengthens VM programs through governance and policy, and prepares teams for zero-day events and audits. It covers real-world remediation, automation, and stakeholder engagement, with Cyber42 Round 4 and hands-on labs on gold image pipeline, culture change, and remediation.

TOPICS: Compliance & Regulations; Incident Preparedness and Response; Continuous Improvement; Roles and Responsibilities; Future Proofing; AI and Machine Learning

Who Should Attend

LDR516 is designed for both technical practitioners and strategic leaders responsible for managing vulnerabilities across enterprise, cloud, and hybrid environments. Ideal participants include:

- Vulnerability analysts, engineers, and program managers
- Security architects, SOC leads, and CISOs
- IT operations, DevOps, and cloud platform professionals
- Risk, compliance, and governance officers
- Business continuity and disaster recovery planners
- Government and critical infrastructure cybersecurity teams (e.g., FedRAMP, NIST CSF)

NICE Framework Work Roles:

- Security Control Assessor (OPM 612)
- Vulnerability Assessment Analyst (OPM 541)

“It is excellent for people who are creating and implementing their VMP. The course is detailed, thorough, and sets clear expectations for a successful program.”

—Rachel Parkhurst

“An understanding of vulnerability management and cloud security is becoming not only valuable but a necessity to keep one’s organization secure in this constantly changing and dynamic environment.”

—Kae David, EY