



AI-Assisted Cyber Defense Strategy and Validation Course

12 – 16 October 2026
Amsterdam

AI-Assisted Cyber Defense Strategy and Validation Course

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Overview

AI-Assisted Cyber Defense Strategy and Validation Course is a five-day foundation course for security operations analysts, cyber defense teams, incident responders, threat hunters, security engineers, and risk specialists, who leave with an AI-Assisted Cyber Defense Strategy and Validation Plan. Participants map threats, select behavior and anomaly signals, design detection logic, prioritize alerts, validate findings, connect response playbooks, test adversarial scenarios, govern AI risks, and measure defense performance. Agile Leaders Training Center provides training in AI-assisted cyber defense strategy and validation.

Who Should Attend

- Security operations teams responsible for monitoring and alert decisions
- Cyber defense teams responsible for detection strategy and controls
- Incident responders responsible for validation and containment actions
- Threat hunters responsible for hypotheses and evidence gathering
- Security engineers responsible for detection integration and testing
- Risk specialists responsible for model and defense assurance

The course assumes participants contribute to security operations, cyber defense, response, hunting, engineering, or assurance and leaves out programming AI models, offensive exploitation, product configuration, non-technical board governance, and certification preparation.

Departments and Industries

The course supports AI-assisted cyber defense across security operations and technology-dependent organizations.

- Security operations and cyber defense functions
- Incident response and threat-hunting teams
- Technology, cloud, and digital service organizations
- Financial, healthcare, and professional service organizations
- Energy, manufacturing, and critical infrastructure organizations
- Government, education, and research organizations

Learning Objectives

By the end of this course, participants will be able to:



- Apply threat intelligence to AI-assisted defense priorities
- Analyze behavior, anomaly, and contextual signals
- Build detection hypotheses, alert logic, and triage criteria
- Evaluate findings through human validation and response playbooks
- Use adversarial testing and model-risk controls
- Build an AI-Assisted Cyber Defense Strategy and Validation Plan

Course Agenda

Day 1: Threat Context and Defense Scope

- Cyber Defense Mission and Scope Canvas
- Threat Actor, Asset, and Impact Map
- MITRE ATT&CK and ATLAS Alignment Sheet
- AI-Assisted Defense Use-Case Matrix
- Defense Requirement and Constraint Register

Day 2: Signals and Detection Engineering

- Threat Intelligence and Signal Inventory
- Behavior and Anomaly Detection Hypothesis
- Data Provenance and Quality Checklist
- Detection Rule and Feature Design Card
- Coverage, Gap, and Blind-Spot Map

Day 3: Alert Triage and Response

- Alert Confidence and Priority Matrix
- Human Validation and Evidence Checklist
- False-Positive and Missed-Detection Register
- Response Playbook Decision Tree
- Detection-to-Response Feedback Loop

Day 4: Adversarial Validation and Assurance

- AI Threat Scenario and Attack-Path Map
- Adversarial Test and Emulation Plan
- Model Evasion, Poisoning, and Manipulation Review
- AI Defense Risk and Control Register
- Defense Performance and Drift Scorecard

Day 5: Cyber Defense Strategy Practice

- Suggested Exercise: Map Threats and Defense Priorities
- Suggested Exercise: Design Signals and Detection Logic
- Suggested Exercise: Triage Alerts and Select Responses
- Suggested Exercise: Validate Defenses with Adversarial Scenarios
- Capstone Exercise: AI-Assisted Cyber Defense Strategy and Validation Plan

Practical Exercises

The course uses suggested activities that turn threat evidence into testable AI-assisted defense decisions.

- Suggested activity: map threat actors, assets, impacts, tactics, techniques, use cases, requirements, and defense constraints
- Suggested activity: define behavior and anomaly hypotheses, data sources, detection features, coverage, gaps, and blind spots
- Suggested activity: prioritize alerts, validate evidence, record false positives and missed detections, and connect response actions
- Suggested activity: build adversarial scenarios, test controls, record model risks, and define performance and drift measures

FAQs

Who suits AI-assisted cyber defense strategy training?

AI-assisted cyber defense strategy training suits security operations, cyber defense, incident response, threat hunting, engineering, and assurance teams. It assumes cybersecurity operations experience and requires no AI-model programming.

How does AI-assisted cyber defense differ from non-technical cyber-risk training?

AI-assisted cyber defense focuses on threat signals, detection engineering, alert triage, response playbooks, adversarial testing, and defense metrics. Non-technical cyber-risk training focuses on enterprise exposure, appetite, critical operations, oversight, and board decisions.

How can AI support cyber threat detection?

AI can support cyber threat detection by organizing intelligence, finding behavioral and anomaly patterns, prioritizing alerts, and connecting related evidence. Analysts remain responsible for context, validation, escalation, and response decisions.



Why should AI-assisted cyber defenses be tested adversarially?

Adversarial testing examines how threats may evade, manipulate, poison, or exploit AI-enabled defenses. It helps teams identify attack paths, blind spots, control weaknesses, performance limits, and required human safeguards.

What belongs in an AI-Assisted Cyber Defense Strategy and Validation Plan?

The plan includes mission, threats, assets, signals, detection hypotheses, alert priorities, validation, response playbooks, attack scenarios, tests, model-risk controls, performance measures, drift monitoring, owners, and improvement actions.

Conclusion

Participants take back an AI-Assisted Cyber Defense Strategy and Validation Plan connecting threat evidence, detection, response, testing, and assurance. The plan makes hypotheses, coverage, alert decisions, model risks, performance, and improvement ownership visible across teams. It supports traceable defense design and repeatable validation as threats and signals change.