

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 27402 — IoT Device Baseline Security Requirements

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference IIT-IOT-27402 • ISO IT & Related Technologies

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	IIT-IOT-27402
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Incident Response Strategies

5 chapters · 30 classes 65 marks

• 1 Understanding Incident Response Frameworks in IoT — 6 classes

› 1.1 Define the Key Components of an Incident Response Framework in IoT

› 1.2 Identify Common Security Incidents Affecting IoT Devices

› 1.3 Explore the Phases of Incident Response Specific to IoT

› 1.4 Analyze Case Studies of IoT Incident Responses

› 1.5 Develop a Customized Incident Response Plan for IoT Devices

› 1.6 Evaluate the Effectiveness of Incident Response Strategies in IoT

• 2 Identifying and Classifying IoT Security Incidents — 6 classes

› 2.1 Define IoT Security Incidents and Their Impact

› 2.2 Recognize Common Types of IoT Security Incidents

› 2.3 Analyze Real-World Case Studies of IoT Incidents

› 2.4 Utilize Frameworks to Classify IoT Security Incidents

› 2.5 Develop Criteria for Prioritizing Incident Response

› 2.6 Apply Classification Strategies to Simulated IoT Scenarios

• 3 Developing an IoT Incident Response Plan — 6 classes

› 3.1 Define the Key Components of an IoT Incident Response Plan

› 3.2 Identify Roles and Responsibilities in Incident Response Teams

› 3.3 Assess Risks and Prioritize IoT Threat Scenarios

› 3.4 Develop Effective Detection and Monitoring Strategies for IoT Incidents

› 3.5 Create a Communication Plan for Stakeholders During an Incident

› 3.6 Evaluate and Test the IoT Incident Response Plan Through Simulations

• 4 Executing Incident Response Procedures for IoT Devices — 6 classes

› 4.1 Identify IoT Device Vulnerabilities in Incident Response

› 4.2 Develop an Incident Response Plan for IoT Devices

› 4.3 Implement Detection Techniques for IoT Security Incidents

› 4.4 Execute Containment Strategies for IoT Incidents

› 4.5 Conduct Post-Incident Analysis and Review for IoT Devices

› 4.6 Communicate Incident Response Outcomes to Stakeholders

• 5 Post-Incident Analysis and Continuous Improvement in IoT — 6 classes

› 5.1 Analyze Post-Incident Reports to Identify Root Causes

› 5.2 Evaluate Incident Response Effectiveness and Gaps

› 5.3 Engage Stakeholders in Lessons Learned Discussions

› 5.4 Develop Actionable Recommendations for Future Incidents

› 5.5 Implement Changes to Improve IoT Device Security Protocols

› 5.6 Create a Continuous Improvement Framework for Incident Response

• 1 Understanding IoT and Its Security Implications — 6 classes

- › 1.1 Define the Internet of Things and Its Components
- › 1.2 Explore Common Security Threats in IoT Environments
- › 1.3 Identify Key Security Standards for IoT Devices
- › 1.4 Analyze Real-World IoT Security Breaches
- › 1.5 Assess Risk Management Strategies for IoT Deployments
- › 1.6 Develop an Action Plan for Enhancing IoT Device Security

• 2 Core Principles of IoT Security Frameworks — 6 classes

- › 2.1 Define Key IoT Security Concepts
- › 2.2 Identify Common Threats to IoT Devices
- › 2.3 Explore the Importance of Security Frameworks
- › 2.4 Analyze ISO 27402 Security Requirements
- › 2.5 Evaluate Risk Management Practices for IoT
- › 2.6 Develop a Basic IoT Security Strategy

• 3 Evaluating Security Risks in IoT Deployments — 6 classes

- › 3.1 Identify Common Security Risks in IoT Devices
- › 3.2 Assess Vulnerabilities in IoT Infrastructure
- › 3.3 Analyze Threat Models for IoT Environments
- › 3.4 Evaluate the Impact of Security Breaches on IoT Systems
- › 3.5 Prioritize Risks and Develop Mitigation Strategies
- › 3.6 Apply Best Practices for Continuous Security Assessment in IoT

• 4 Implementing Baseline Security Requirements for IoT Devices — 6 classes

- › 4.1 Identify the Key Baseline Security Requirements for IoT Devices
- › 4.2 Assess the Current Security Posture of IoT Devices
- › 4.3 Develop a Risk Management Framework for IoT Security
- › 4.4 Implement Access Control Measures for IoT Devices
- › 4.5 Establish Data Protection Strategies for IoT Systems
- › 4.6 Evaluate the Effectiveness of Implemented Security Controls in IoT Devices

• 5 Future Trends and Challenges in IoT Security — 6 classes

- › 5.1 Analyze Emerging Trends in IoT Security
- › 5.2 Identify Key Challenges Facing IoT Security Today
- › 5.3 Examine Case Studies on Recent IoT Security Breaches
- › 5.4 Evaluate Future Technologies Impacting IoT Security
- › 5.5 Develop Strategic Solutions for IoT Security Challenges
- › 5.6 Propose Best Practices for Securing Future IoT Devices

• 1 Understanding ISO 27402: Objectives and Scope — 6 classes

- › 1.1 Analyze the Objectives of ISO 27402
- › 1.2 Identify Key Components of the ISO 27402 Framework
- › 1.3 Explore the Importance of IoT Device Security
- › 1.4 Examine the Scope and Applicability of ISO 27402
- › 1.5 Evaluate Compliance Requirements for Leadership
- › 1.6 Apply ISO 27402 Principles to Real-world Scenarios

• 2 Core Principles of IoT Security Frameworks — 6 classes

- › 2.1 Identify Key Components of IoT Security Frameworks
- › 2.2 Analyze Risks Associated with IoT Devices
- › 2.3 Distinguish Between Security Levels in IoT Frameworks
- › 2.4 Evaluate the Impact of Security Breaches on IoT Systems
- › 2.5 Apply Core Principles to Develop a Security Strategy
- › 2.6 Recommend Best Practices for Implementing ISO 27402

• 3 Identifying Security Requirements for IoT Devices — 6 classes

- › 3.1 Analyze Current IoT Security Landscape
- › 3.2 Identify Key Components of ISO 27402 Standards
- › 3.3 Conduct a Risk Assessment for IoT Devices
- › 3.4 Define Security Requirements Based on Risk Analysis
- › 3.5 Evaluate Existing IoT Devices Against ISO Standards
- › 3.6 Develop an Action Plan for Implementing Security Requirements

• 4 Implementation Strategies for Compliance — 6 classes

- › 4.1 Assess Current Compliance Status Against ISO 27402
- › 4.2 Identify Key Stakeholders for Implementation Strategy
- › 4.3 Develop a Risk Assessment Framework for IoT Devices
- › 4.4 Create an Action Plan for Addressing Compliance Gaps
- › 4.5 Monitor and Evaluate Implementation Progress Regularly
- › 4.6 Communicate Compliance Strategies to All Stakeholders

• 5 Evaluating and Maintaining Security Standards — 6 classes

- › 5.1 Analyze Current Security Standards Against ISO 27402
- › 5.2 Identify Gaps in IoT Device Security Compliance
- › 5.3 Implement Effective Assessment Tools for Security Evaluation
- › 5.4 Develop a Structured Plan for Security Maintenance
- › 5.5 Review Case Studies of Security Standard Failures
- › 5.6 Create an Actionable Security Improvement Checklist

• 1 Understanding Leadership Styles in IoT Security — 6 classes

- › 1.1 Explore Leadership Theories Relevant to IoT Security
- › 1.2 Assess the Impact of Different Leadership Styles on Team Dynamics
- › 1.3 Identify Effective Communication Strategies for Security Leadership
- › 1.4 Analyze Case Studies of Leadership in IoT Security Breaches
- › 1.5 Develop a Personal Leadership Philosophy for IoT Security
- › 1.6 Implement Leadership Strategies to Enhance IoT Security Communications

• 2 Effective Communication Strategies for Security Leadership — 6 classes

- › 2.1 Define Key Communication Principles for Security Leadership
- › 2.2 Identify Stakeholder Communication Needs in Security Contexts
- › 2.3 Develop Clear Messaging for Cybersecurity Strategies
- › 2.4 Facilitate Active Listening Techniques for Leadership
- › 2.5 Practice Crisis Communication Scenarios in Security Operations
- › 2.6 Evaluate the Impact of Communication on Security Team Effectiveness

• 3 Building a Security-focused Team Culture — 6 classes

- › 3.1 Define Core Values for a Security-focused Team
- › 3.2 Communicate Security Objectives Clearly to Your Team
- › 3.3 Foster Open Communication and Feedback about Security Practices
- › 3.4 Encourage Team Collaboration on Security Challenges
- › 3.5 Recognize and Reward Security-focused Behaviors
- › 3.6 Develop a Continuous Improvement Plan for Security Awareness

• 4 Risk Management and Decision-Making in IoT Security — 6 classes

- › 4.1 Identify Key Risks in IoT Security Framework
- › 4.2 Analyze Risk Impacts on IoT Devices and Systems
- › 4.3 Develop Risk Mitigation Strategies for IoT Environments
- › 4.4 Evaluate Decision-Making Models in IoT Security Context
- › 4.5 Create a Risk Management Plan for IoT Device Implementation
- › 4.6 Communicate and Present IoT Security Risks to Stakeholders

• 5 Engaging Stakeholders for Effective Security Governance — 6 classes

- › 5.1 Identify Key Stakeholders in Security Governance
- › 5.2 Analyze Stakeholder Needs and Expectations
- › 5.3 Develop Effective Communication Strategies for Security Initiatives
- › 5.4 Foster Collaboration Among Stakeholders for Enhanced Security Outcomes
- › 5.5 Evaluate Stakeholder Engagement Techniques and Their Impact
- › 5.6 Implement Continuous Feedback Mechanisms for Security Governance

• 1 Understanding IoT Ecosystems and their Vulnerabilities — 6 classes

- › 1.1 Identify Key Components of IoT Ecosystems
- › 1.2 Analyze Common Vulnerabilities in IoT Devices
- › 1.3 Explore Threats to IoT Data Integrity and Privacy
- › 1.4 Assess the Impact of Vulnerabilities on Stakeholders
- › 1.5 Develop Strategies for Mitigating IoT Risks
- › 1.6 Create a Security Action Plan for an IoT Ecosystem

• 2 Fundamentals of Risk Management in IoT — 6 classes

- › 2.1 Understand Key Terms in IoT Risk Management
- › 2.2 Identify Potential Risks Associated with IoT Devices
- › 2.3 Analyze the Impact of Risks on IoT Operations
- › 2.4 Evaluate Current Security Frameworks for IoT Risk Management
- › 2.5 Develop Mitigation Strategies for Identified IoT Risks
- › 2.6 Implement a Risk Assessment Process for IoT Projects

• 3 Implementing Security Controls in IoT Deployments — 6 classes

- › 3.1 Identify Key Security Controls for IoT Deployments
- › 3.2 Assess Risk Factors Unique to IoT Devices
- › 3.3 Implement Authentication Mechanisms in IoT Systems
- › 3.4 Apply Data Encryption Techniques for IoT Security
- › 3.5 Monitor and Respond to Security Incidents in IoT Networks
- › 3.6 Evaluate the Effectiveness of Security Controls in IoT

• 4 Compliance and Regulatory Frameworks for IoT Security — 6 classes

- › 4.1 Identify Key Compliance Standards for IoT Security
- › 4.2 Analyze the Role of ISO 27402 in IoT Risk Management
- › 4.3 Evaluate Regulatory Requirements Impacting IoT Devices
- › 4.4 Explore Regional Variations in IoT Security Compliance
- › 4.5 Develop a Compliance Checklist for IoT Implementations
- › 4.6 Create an Action Plan for Continuous Compliance Monitoring

• 5 Incident Response and Recovery in IoT Environments — 6 classes

- › 5.1 Identify Key Components of Incident Response in IoT
- › 5.2 Assess Risks Associated with IoT Incidents
- › 5.3 Develop an Incident Response Plan for IoT Devices
- › 5.4 Implement Detection and Analysis Strategies for IoT Incidents
- › 5.5 Execute Response and Mitigation Procedures in IoT Environments
- › 5.6 Review and Update Recovery Strategies Post-Incident in IoT

• 1 Understanding IoT Security and ISO 27402 Framework — 6 classes

- › 1.1 Analyze the Importance of IoT Security in Today's Digital Landscape
- › 1.2 Identify Key Components of the ISO 27402 Framework
- › 1.3 Examine Risk Management Strategies for IoT Devices
- › 1.4 Develop Guidelines for Establishing IoT Security Policies
- › 1.5 Evaluate Implementation Challenges of ISO 27402 in Organizations
- › 1.6 Create an Action Plan for Compliance with ISO 27402 Standards

• 2 Identifying Security Threats and Vulnerabilities in IoT Devices — 6 classes

- › 2.1 Define IoT Security Threats and Vulnerabilities
- › 2.2 Analyze Common IoT Device Attack Vectors
- › 2.3 Explore Real-World IoT Security Breaches
- › 2.4 Assess the Impact of Vulnerabilities on Device Functionality
- › 2.5 Identify Risk Assessment Techniques for IoT Devices
- › 2.6 Develop a Mitigation Strategy for IoT Security Threats

• 3 Developing Comprehensive Security Policies for IoT — 6 classes

- › 3.1 Identify Core Components of IoT Device Security Policies
- › 3.2 Analyze Risks and Threats in IoT Environments
- › 3.3 Establish Framework for Security Policy Development
- › 3.4 Integrate Stakeholder Input into Security Policy Creation
- › 3.5 Develop Guidelines for Compliance with ISO 27402 Standards
- › 3.6 Evaluate and Revise Security Policies for Continuous Improvement

• 4 Implementing and Enforcing IoT Security Policies — 6 classes

- › 4.1 Identify Key IoT Security Policy Objectives
- › 4.2 Assess Current IoT Security Vulnerabilities
- › 4.3 Develop Comprehensive IoT Security Policies
- › 4.4 Communicate Policies to Key Stakeholders
- › 4.5 Monitor and Enforce IoT Security Policies
- › 4.6 Review and Update IoT Security Policies Regularly

• 5 Monitoring and Updating Security Policies for IoT Sustainability — 6 classes

- › 5.1 Identify Key Metrics for Monitoring IoT Security Policies
- › 5.2 Analyze Existing IoT Security Policies for Gaps
- › 5.3 Develop a Framework for Regular Security Policy Review
- › 5.4 Implement Strategies for Real-Time Security Incident Monitoring
- › 5.5 Evaluate the Effectiveness of Security Policy Updates
- › 5.6 Communicate Policy Changes to Stakeholders Effectively