

Cisco 300-735 Exam Preparation 2026

Cisco 300-735 2026. Automate security with Python, REST APIs, and Cisco Security Manager.

[IT Certifications](#) Instructor: Jason Miller • 5 sections • 46 lessons • 15.75h total

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About this course

This course is for network security professionals and IT engineers who need to pass the Cisco 300-735 exam. We will break down the exam objectives into manageable sections, focusing on practical skills rather than just memorization.

You will learn how to automate security solutions using Python and REST APIs, work with Cisco Security Manager, and apply these skills in real environments. The course includes video lessons, downloadable templates, and practice scenarios that mirror actual exam questions.

Course curriculum

Foundations and Exam Overview

- **Understanding 300-735 Exam Structure (12m)**
Learn the exam format, question types, and scoring to plan your study strategy effectively
- **Setting Up Your Study Environment (18m)**
Step-by-step guide to configure Python, Cisco tools, and practice labs for hands-on learning
- **Key Automation Concepts for Security (15m)**
Foundational principles of automating security tasks that you'll apply throughout the course
- **Python Basics for Cisco Security (22m)**
Essential Python programming concepts needed for automation tasks in Cisco environments
- **Working with REST APIs (25m)**
How to make API calls to Cisco security platforms and handle responses correctly
- **Downloadable Study Planner Template (8m)**
Practical template to organize your 300-735 preparation timeline and track progress
- **Common Exam Pitfalls to Avoid (10m)**
Real student experiences and how to sidestep common mistakes during preparation

Core Automation Techniques

- **Automating Cisco Security Manager Tasks (28m)**
Step-by-step guide to automate policy management and device configuration
- **Working with Cisco Firepower Management Center (32m)**
Practical automation scripts for Firepower deployments and monitoring
- **Using Cisco Threat Grid API (18m)**
Real case study: Automating malware analysis and threat intelligence gathering
- **Automating Umbrella DNS Security (22m)**
Hands-on session with downloadable scripts for Umbrella policy management
- **Cisco SecureX Integration (20m)**
How to leverage SecureX platform for broader security automation workflows
- **Handling API Authentication (15m)**
Problem-solving session on OAuth, tokens, and secure API access patterns
- **Error Handling in Automation Scripts (24m)**
Learn robust error handling with practical examples from real deployments
- **Logging and Monitoring Automation (19m)**
Implement proper logging for your automation scripts with ready-to-use templates
- **Testing Your Automation Code (16m)**
Methodologies for testing security automation scripts before deployment

Deep Dive into Security Solutions

- **Automating Intrusion Prevention Systems (26m)**
Real-world cases from enterprise environments with downloadable configurations

- **Security Policy Automation Framework (30m)**
Step-by-step guide to creating reusable policy automation templates
- **Cisco Secure Email Gateway Automation (21m)**
Practical scripts for managing email security policies and threat detection
- **Web Security Automation Techniques (17m)**
How to automate web security policies and URL filtering at scale
- **Cloud Security Automation with Cisco (25m)**
Real case study: Automating security in hybrid cloud environments
- **Integrating Security Tools via APIs (23m)**
Problem-solving session on connecting multiple Cisco security platforms
- **Performance Optimization for Automation (14m)**
Tips and tricks to make your security automation scripts run efficiently
- **Security Compliance Automation (29m)**
How to automate compliance checks and reporting for regulatory requirements

Advanced Automation Applications

- **Building Custom Security Dashboards (31m)**
Step-by-step guide to create monitoring dashboards using Python and APIs
- **Automated Threat Response Workflows (27m)**
Real case study: Creating automated incident response playbooks
- **Scaling Automation Across Networks (24m)**
Techniques for deploying automation scripts across multiple sites
- **Cisco DNA Center Integration (22m)**
Practical automation examples for network security with DNA Center
- **Automating Zero Trust Implementations (26m)**
How to automate zero trust policy deployment and verification
- **API Rate Limiting and Optimization (18m)**
Problem-solving session on handling API limits in enterprise environments
- **Security Automation for IoT Devices (20m)**
Real-world cases from manufacturing and healthcare IoT deployments
- **Automated Vulnerability Management (25m)**
Step-by-step guide to automate vulnerability scanning and remediation
- **Integration with SIEM Systems (23m)**
How to connect Cisco security automation with SIEM for better visibility
- **Custom Script Development Workshop (35m)**
Hands-on session building a complete automation project from scratch

Implementation and Exam Success

- **Practice Exam Strategy Session (16m)**
How to use practice tests effectively and analyze your results
- **Time Management During the Exam (12m)**
Practical techniques to pace yourself and avoid running out of time

- **Real Exam Question Walkthroughs (32m)**
Detailed analysis of actual 300-735 question types with solution approaches
- **Troubleshooting Automation Scenarios (28m)**
Problem-solving session on common automation issues in exam questions
- **Final Review Checklist (10m)**
Downloadable checklist covering all exam objectives for last-minute review
- **Exam Day Preparation Tips (8m)**
Practical advice for the day before and day of your 300-735 exam
- **Post-Exam Certification Path (14m)**
What to do after passing and how to apply your new skills professionally
- **Building Your Security Automation Portfolio (22m)**
Step-by-step guide to showcase your automation skills to employers
- **Continuous Learning Resources (11m)**
Curated list of tools, communities, and resources for ongoing development
- **Case Study: Enterprise Security Automation (34m)**
Complete real-world project showing end-to-end security automation implementation
- **Career Opportunities in Security Automation (15m)**
Real examples of job roles and how to position yourself for advancement
- **Course Wrap-up and Next Steps (9m)**
Summary of key takeaways and actionable plan for your certification journey

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