

# Adtran Technical Solutions Associate (ATSA) Training

*COURSE CONTENT*

## GET IN TOUCH



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## About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

## About Course

Adtran Technical Solutions Associate (ATSA) Training by Multisoft Systems is designed to help networking professionals, telecom engineers, and IT specialists build expertise in Adtran networking and communication technologies. The course provides comprehensive knowledge of Adtran solutions used in enterprise networking, broadband access, fiber-optic communication, and service provider environments.

## Module 1: Introduction to Adtran Technologies

- ✓ Overview of Adtran networking solutions
- ✓ Telecom and enterprise networking fundamentals
- ✓ Understanding network infrastructure components
- ✓ Adtran product portfolio overview
- ✓ Networking standards and protocols
- ✓ Basics of broadband and fiber communication

## Module 2: Networking Fundamentals

- ✓ OSI and TCP/IP models
- ✓ IP addressing and subnetting
- ✓ IPv4 and IPv6 concepts
- ✓ Ethernet technologies
- ✓ LAN and WAN fundamentals
- ✓ Network topologies and architectures

## Module 3: Routing Fundamentals

- ✓ Introduction to routing concepts
- ✓ Static and dynamic routing
- ✓ Routing protocols overview
- ✓ Route configuration and management
- ✓ Inter-network communication
- ✓ Troubleshooting routing issues

## Module 4: Switching Technologies

- ✓ Switching concepts and operations
- ✓ VLAN configuration and management
- ✓ Trunking concepts
- ✓ Spanning Tree Protocol (STP)

- ✓ Layer 2 and Layer 3 switching
- ✓ Switch security fundamentals

## **Module 5: Broadband and Fiber Access Technologies**

- ✓ Introduction to broadband technologies
- ✓ Fiber optic communication fundamentals
- ✓ GPON and Ethernet access concepts
- ✓ Fiber deployment architectures
- ✓ Access network management
- ✓ Broadband service delivery models

## **Module 6: WAN Technologies and Connectivity**

- ✓ WAN infrastructure overview
- ✓ MPLS and VPN concepts
- ✓ Remote connectivity solutions
- ✓ WAN optimization techniques
- ✓ Enterprise branch connectivity
- ✓ Network redundancy and failover

## **Module 7: Quality of Service (QoS)**

- ✓ QoS fundamentals
- ✓ Traffic classification and prioritization
- ✓ Bandwidth management
- ✓ Voice and video traffic optimization
- ✓ QoS policy configuration
- ✓ Performance monitoring techniques

## **Module 8: Network Security Fundamentals**

- ✓ Introduction to network security

- ✓ Firewall and access control concepts
- ✓ Secure network communication
- ✓ Authentication and authorization basics
- ✓ Threat detection and mitigation
- ✓ Security best practices

## **Module 9: Adtran Device Configuration and Management**

- ✓ Device initialization and setup
- ✓ Command-line interface (CLI) basics
- ✓ Configuration backup and restoration
- ✓ Firmware and software management
- ✓ Device monitoring and diagnostics
- ✓ Log management and reporting

## **Module 10: Network Troubleshooting and Maintenance**

- ✓ Troubleshooting methodologies
- ✓ Diagnosing network connectivity issues
- ✓ Performance analysis techniques
- ✓ Fault isolation procedures
- ✓ Maintenance best practices
- ✓ Real-world troubleshooting scenarios

## **Module 11: Monitoring and Network Operations**

- ✓ Network monitoring tools and concepts
- ✓ SNMP and network management protocols
- ✓ Event and alarm management
- ✓ Performance monitoring dashboards
- ✓ Network operations center (NOC) concepts
- ✓ Reporting and analytics

## Module 12: Real-World Implementation and Best Practices

- ✓ Enterprise deployment scenarios
- ✓ Service provider use cases
- ✓ Network design considerations
- ✓ Infrastructure scalability planning
- ✓ Operational best practices