

Cisco Networking & AI-Enabled Router Configuration

COURSE OVERVIEW

This course offers a practical and comprehensive understanding of modern networking principles, with a focus on Cisco technologies and artificial intelligence integration. It covers the design, setup and management of enterprise level networks, emphasizing intelligent automation, traffic optimization and predictive maintenance using AI-enabled routers. Participants will gain live experience in configuring Cisco devices, implementing security protocols and leveraging AI tools to enhance network performance, reliability and efficiency in real time environments.

WHO SHOULD ATTEND?

This course is designed for network engineers, IT professionals, system administrators and technical managers seeking to enhance their expertise in Cisco networking and AI-driven network solutions. It is also suitable for aspiring network specialists, cybersecurity professionals, and those preparing for Cisco certification pathways who wish to stay ahead in the evolving landscape of intelligent network infrastructure.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the fundamentals of Cisco networking and AI integration.
- Configure and optimize Cisco routers using AI-driven tools and automation.
- Implement secure and scalable network architectures.
- Analyze network performance using AI-based diagnostics and predictive analytics.
- Apply best practices for real-time troubleshooting and maintenance.
- Design and manage intelligent network systems for greater efficiency and reliability.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Fundamentals of Cisco networking and routing protocols.
- Configuring Cisco routers with AI-enabled tools for optimized performance.
- Network layer concepts, including IPv4 and IPv6 addressing.
- Setting up and managing routing tables and interfaces.
- Applying automation and programmability in router configuration.
- Troubleshooting common network and routing issues efficiently.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded