



## **Operating and Implementing Cisco WAN Automation Engine**

Duration: 180 Days Course Code: SPWAE Version: 1.0 Delivery Method: Elearning (Self-paced)

#### Overview:

The **Operating and Implementing Cisco WAN Automation Engine (SPWAE)** course teaches you how to install the Cisco® WAN Automation Engine (WAE). Learn how to plan, deploy, configure, and maintain Cisco WAN Automation Engine solutions. Build your confidence with Cisco WAE configuration and basic troubleshooting, and practice designing and managing bandwidth and traffic engineering.

#### e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

#### **Target Audience:**

Anyone involved in the planning, design and implementation of a Cisco WAN Automation Engine Solution.

#### Objectives:

- After completing this course, you should be able to:
- Explain WAE basics, the purpose of WAE, and its capabilities
- Understand the Cisco WAE solution implementation
- Describe the network module configuration process
- Describe WAE Design software tools, demands creation, BGP modeling, and Failure and Simulation analysis
- Describe Cisco WAE Design traffic engineering and QoS modeling
- Explain how to use API with WAE Design and WAE Server
- Describe the function, components, and processes of Cisco WAE Live

# Prerequisites:

### Attendees should have the following prerequisites:

- Knowledge of general networking and routing concepts
- Basic knowledge of routing protocols: Open Shortest Path First (OSPF), Intermediate System-to-Intermediate System (IS-IS), Border Gateway Protocol (BGP)
- Understanding of Cisco Multiprotocol Label Switching Traffic Engineering (MPLS TE) technologies
- Understanding of Segment Routing Traffic Engineering (SR-TE) technologies
- Basic knowledge of Linux server operation and Linux tools
- Basic understanding of network automation and Software-Defined Networking (SDN) concepts
- CCNA Implementing and Administering Cisco Solutions
- SEGRTE201 Implementing Segment Routing on Cisco IOS XR
- SPCOR Implementing and Operating Cisco Service Provider Network Core Technologies

## **Testing and Certification**

### Recommended as preparation for the following exams:

There are no exams currently aligned to this course

## Content:

WAE Solution and Architecture Overview	WAE Design Fundamentals	Cisco WAE Live Deployment
Implementing a Cisco WAE Solution	Cisco WAE Design Traffic Engineering and Optimization	Lab outline
		Start with Cisco WAE
Network Model Configuration		Cisco WAE Server Setup and Collector
	Introducing Cisco WAE API	Configuration
	_	Get Started with Cisco WAE Design
		Describe Traffic with Demands
		Failures and Simulation Analysis
		Engineer Traffic Using Metrics and SR-TE
		Cisco WAE Design Remote Procedure
		Call (RPC) API
		Configure Cisco WAE Live

# Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987 training@globalknowledge.ae www.globalknowledge.com/en-ae/

Global Knowledge, Dubai Knowledge Village, Block 2A, First Floor, Office F68, Dubai, UAE