



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

---

**You can reach us at:**

Arrow ECS, Nidderdale House, Beckwith Knowle, Harrogate, HG3 1SA

Email: [educationteam.ecs.uk@arrow.com](mailto:educationteam.ecs.uk@arrow.com)  
Phone: 0870 251 1000

CODE:	LENGTH:	PRICE:
EDU-JUN-MIST	32 Hours (4 days)	£3,400.00

## Description

This four-day course is designed to provide students with the knowledge required to work with enterprise wireless technologies and Mist AI-driven Wi-Fi networks. Students will gain in-depth knowledge of Wi-Fi technologies, Mist technologies, and how to use and configure them.

Through demonstrations and hands-on labs, students will gain experience with the features and functionality of Mist AI-driven Wi-Fi. The Juniper Mist AI Networks (MIST) course is an intermediate-level course. Relevant Juniper Product

• CSO • EX Series • SRX Series • Mist

## Objectives

- Explain the various Wi-Fi o Physical (PHY) layers o Frequency bands o Modulation and coding o Arbitration and contention methods o WLAN architectures and concepts • Describe WLAN association and roaming
- Explain the wireless LAN life cycle o Business factors o Technical considerations o Design and modeling o Deployment o Validation and optimization • Explain and configure Mist architecture o Cloud architecture o AP states o Boot options o Cloud adoption o Mist Edge o Control, data, and management planes o Component communication o AP registration and release
- Construct and define Mist WLAN configurations o WLAN concepts o Beacons o Basic and required data rates o Configuration options o Radio settings o Security concepts • Explain network operations using Mist o Wireless Assurance o Event and Insights o Radio Resource Management o Wired Assurance • Use Mist intelligent analytics and Marvis o AI and machine learning o Troubleshooting • Describe Real Time Location Sensor (RTLS) concepts and method o Wi-Fi location o Virtual BLE o RTLS applications • Describe Mist automation and scripting o API overview o Data driven o Event driven

## Audience

Individuals working with enterprise wireless networks and applying artificial intelligence to their activities.

## Prerequisites

- Basic TCP/IP skills • Basic knowledge of wireless technologies (Wi-Fi) is recommended

## Programme

Day 1 Course Introduction Wi-Fi Basics • What Is Wi-Fi? • 802.11 PHYs • Frequency Bands • RF Basics • Modulation and Coding • Network Arbitration and Contention • WLAN Architectures • WLAN Association and Roaming • Network Contention • Wireless LAN Life Cycle LAB 1: WLAN Testing Day 2 Mist Architecture and Initial Setup • Mist Architecture • Mist Account Organizations and Subscriptions • Configuration Objects • Organization Objects Versus Site Objects • Access Points Overview, Configuration, and Troubleshooting LAB 2: Initial Setup LAB 3: Remote Site WLANs • WLAN Concepts • Security Concepts • Mist WLANs • Policy (WxLAN) • Wireless Intrusion Detection and Prevention LAB 4: WLANs Day 3 Network Operations • Wireless Assurance • Events and Insights • Radio Resources Management (RRM) • Wired Assurance LAB 5: SLE Troubleshooting Wired Assurance • Solution and Supported Devices • Provisioning and Deployment • Operation • Design and Architecture LAB 6: Wired Assurance AI and Marvis • Artificial Intelligence (AI) Reactive and Proactive Troubleshooting • Reactive and Proactive Troubleshooting • Marvis Language and Actions LAB 7: Marvis Day 4 Location-Based Services • Concepts and Methods • Wi-Fi Location • Virtual BLE • User Engagement • Asset Visibility Automation and Scripting • Mist API Overview • Automation and Scripting Overview LAB 8: RESTful API LAB 9: WebSocket API

## Test and Certification

Associated Certification JNCIS-MIST Exams can be purchased and scheduled at an additional cost – please ask for details.

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
27 May 2024	Virtual Training Class - TP	BST	English	Instructor Led Online		£3,400.00
05 Aug 2024	Virtual Training Class - TP	BST	English	Instructor Led Online		£3,400.00

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)