



## TRAINING OFFERING

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**You can reach us at:**

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# ONTAP Performance Administration

**CODE:**

NEP\_OT-PERFADM

**LENGTH:**

24 Hours (3 days)

**PRICE:**

£2,660.00

**Description**

Learn how to collect and analyze system performance data from NetApp® storage systems that run NetApp ONTAP® 9 software. You learn how to interpret data and how to identify and implement changes that improve system efficiency. You also learn how to use system commands and features to monitor and enhance storage system performance. You learn from hands-on exercises, case studies, and technical discussions.

**Objectives**

This course focuses on enabling you to do the following:

- Describe how to use NetApp tools for performance measurement
- Describe the layers within the ONTAP architecture
- Diagram the flow of read and write requests through the network and data layers of ONTAP software
- Discuss how storage quality of service (QoS) operates in an ONTAP cluster
- Explain how to monitor and manage workload performance
- Use the performance analysis tools to identify NAS and SAN performance obstacles

**Audience**

Administrators & Architects

**Programme**

- FAS/AFF system architecture
- Module 1: NetApp Storage System Architecture** • Read and write paths
- Performance concepts
- Module 2: Performance Analysis Fundamentals** • Workloads
- Module 3: Performance Analysis Tools** • Identifying network performance issues
- Performance analysis tools
- Using Active IQ Unified Manager **Module 4: Network Layer** • Resolving network I/O performance issues
- Network Attached Storage
- Identifying NAS performance issues
- Resolving NAS performance issues
- Module 5: NAS Protocols** • Network I/O bottlenecks
- Module 6: SAN Protocols** • Queue depth
- SAN overview
- SAN multipathing
- SAN load balancing
- SAN I/O misalignment
- WAFL functions
- WAFL readahead
- Storage subsystem hardware
- Identifying storage performance issues
- Module 7: WAFL Layer** • Resolving WAFL performance issues
- Module 8: Storage Layer** • Identifying storage performance issues
- Cache subsystems
- Flash Cache
- Flash Pool
- Cache policies
- Module 9: Cache Subsystem** • Cache sizing
- Module 10: Storage Quality of Service** • CPU subsystem
- Managing System Performance with QoS
- Memory subsystem
- Monitoring storage QoS
- Performance service levels
- Module 11: CPU and Memory** • Resolving WAFL performance issues
- Virus Scanning
- Module 12: External Resources** • File access policies

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
13 Jan 2025	Virtual Classroom	GMT	English	Instructor Led Online		£2,660.00
17 Mar 2025	Virtual Classroom	GMT	English	Instructor Led Online		£2,660.00
06 May 2025	Virtual Classroom	BST	English	Instructor Led Online		£2,660.00
16 Jun 2025	Virtual Classroom	BST	English	Instructor Led Online		£2,660.00
15 Dec 2025	Virtual Classroom	GMT	English	Instructor Led Online		£2,660.00
13 Jan 2025	Arrow ECS Harrogate	GMT	English	Instructor Led Online		£2,660.00
17 Mar 2025	Arrow ECS Harrogate	GMT	English	Instructor Led Online		£2,660.00
06 May 2025	Arrow ECS Harrogate	BST	English	Instructor Led Online		£2,660.00
16 Jun 2025	Arrow ECS Harrogate	BST	English	Instructor Led Online		£2,660.00
15 Dec 2025	Arrow ECS Harrogate	GMT	English	Instructor Led Online		£2,660.00
09 Dec 2024	Virtual Classroom	GMT	English	Instructor Led Online		£2,660.00
09 Dec 2024	Arrow ECS Harrogate	GMT	English	Instructor Led Online		£2,660.00

## Additional Information

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