# Fast Lane

# PowerMax and VMAX All Flash Performance (PMWAFP)

**ID** PMWAFP **Price** US $ 3,300.—(excl. VAT) **Duration** 3 days

## Who should attend

This course is intended for Dell Technologies Personnel, Partners, and Customers to assist in troubleshooting and managing the performance of PowerMax and VMAX All Flash arrays.

## Prerequisites

Participants should have a good understanding of PowerMax and VMAX All Flash array architecture, configuration, and components. Familiarity with features such as Service Level based provisioning, SRDF, and TimeFinder SnapVX is expected. Basic knowledge of Unisphere for PowerMax for management and monitoring of arrays is required.

## Course Objectives

Upon successful completion of this course, participants should be able to:

- Identify best practices for optimal performance of PowerMax and VMAX All Flash arrays
- Monitor and analyze performance of arrays using Unisphere for PowerMax
- Illustrate the correlation between workloads and Service Levels, and how they affect performance
- Devise a strategy to analyze key metrics to investigate performance issues and provide remediation recommendations
- Apply analysis information to future planning

## Course Content

### Array Architecture

- Architecture and configurations
- Features
- Best practices

### Performance Analysis Basics

- Methodology

- Measurements
- Workload profiles and characterization

### Performance Analysis with Unisphere for PowerMax

- Administrative Tasks
- Monitoring performance
- Performance reports
- Offline Performance Viewer

### Performance Analysis of Front-End

- Front-End metrics and analysis strategy
- Storage Group planning

### Performance Analysis of Cache

- Overview of cache
- I/O flow
- Cache performance analysis strategy

### Performance Analysis of Back-End

- Back-end overview
- Back-end metrics and analysis strategy
- Data Reduction

### End-to-End Analysis

### TimeFinder and SRDF

- SRDF considerations and performance analysis
- TimeFinder SnapVX considerations

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**Training Centres worldwide**





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