# Course Outline

## Course Outline for the IBM Maximo 9 Migration & Training Project.

This program combines theoretical knowledge with practical lab sessions to ensure a thorough understanding and hands-on experience with IBM Maximo 9 in a containerized OpenShift environment.

**Course Title:** IBM Maximo 9 Migration & Administration Training

**Duration:** 5 Days

**Delivery Mode:** Instructor-Led Training with Hands-On Labs

### Course Objectives:

Understand the architecture and components of IBM Maximo 9.

Gain proficiency in deploying Maximo 9 on Red Hat OpenShift.

Learn data migration strategies from legacy systems to IBM Db2.

Develop skills in system administration, customization, and integration.

Implement best practices for performance optimization and troubleshooting.

### Target Audience:

System Administrators

IT Professionals involved in asset management

Database Administrators

Technical Support Engineers

Implementation Consultants

### Prerequisites:

Basic understanding of enterprise asset management concepts.

Familiarity with Windows Server and Red Hat Enterprise Linux (RHEL) environments.

Knowledge of containerization and Kubernetes is helpful.

# Course Outline:

## Day 1: Introduction & Environment Setup

*Module 1: Overview of IBM Maximo 9*

- Introduction to IBM Maximo Application Suite
- Key features and enhancements in Maximo 9
- Benefits of containerization and microservices architecture

*Module 2: Red Hat OpenShift Fundamentals*

- Understanding OpenShift and Kubernetes
- Setting up OpenShift clusters
- Managing projects and resources in OpenShift

*Lab 1: Deploying Maximo 9 on OpenShift*

- Provisioning OpenShift environment
- Deploying Maximo 9 containers
- Verifying deployment and basic configurations

## Day 2: Data Migration & Database Management

*Module 3: Planning Data Migration*

- Assessing existing data in SQL Server and MongoDB
- Mapping data to IBM Db2 schemas
- Data cleansing and validation techniques

*Module 4: Implementing Data Migration*

- Using IBM data migration tools
- Automating migration processes
- Post-migration data integrity checks

*Lab 2: Migrating Data to IBM Db2*

- Extracting data from legacy systems
- Transforming and loading data into Db2
- Validating migrated data within Maximo 9

## Day 3: System Administration & Configuration

*Module 5: Maximo 9 System Administration*

- User and security management
- Configuring organizations and sites

Setting up roles and permissions

*Module 6: Customization and Integration*

Customizing applications and workflows

Integrating Maximo with external systems via REST APIs

Developing automation scripts

*Lab 3: Administering and Customizing Maximo 9*

Creating and managing user accounts

Designing custom workflows

Implementing API integrations

## Day 4: Maintenance & Work Management

*Module 7: Work Order Management*

Creating and managing work orders

Scheduling and assigning tasks

Tracking work progress and completion

*Module 8: Preventive and Predictive Maintenance*

Setting up preventive maintenance schedules

Utilizing predictive maintenance tools

Monitoring asset health and performance

*Lab 4: Managing Maintenance Activities*

Generating and processing work orders

Configuring preventive maintenance plans

Analysing asset performance data

## Day 5: Performance Optimization & Troubleshooting

*Module 9: System Performance Optimization*

Identifying performance bottlenecks

Tuning Maximo and database settings

Implementing caching and load balancing strategies

*Module 10: Troubleshooting and Support*

Common issues and error resolution

Monitoring system logs and alerts

Establishing a support and maintenance plan

*Lab 5: Performance Tuning and Troubleshooting*

Analysing system performance metrics

Applying optimization techniques

Resolving simulated issues in the lab environment

## Additional Resources:

**IBM Maximo Labs:** Access a collection of hands-on labs to reinforce learning.

**IBM Training Courses:** Explore official IBM courses for further learning.