

Certified Mainframe Modernization Expert (CMME)

COURSE CURRICULUM | SEPTEMBER 2026 BATCH

18
SESSIONS

34 hrs
TOTAL INSTRUCTION

12
HANDS-ON LABS

03 Oct – 29 Nov 2026
SCHEDULE (WEEKENDS)

MAINFRAME MODERNIZATION FOUNDATION

DAYS 1 – 3

DAY
1

AWS Infrastructure Fundamentals

DATE Sat, 03 Oct 2026
TIME 2 hours
TRAINER Abhiramasundhari

- Introduction to Cloud & AWS
- IAM (Identity & Access Management)
- VPC (Virtual Private Cloud)
- EC2 (Elastic Compute Cloud)
- S3 (Simple Storage Service)

LAB AWS Fundamentals

DAY
2

AWS Developer Workflow Module

DATE Sun, 04 Oct 2026
TIME 2 hours
TRAINER Abhiramasundhari

- Amazon RDS
- Git & GitHub
- CodeBuild & CodePipeline
- Elastic Beanstalk

LAB AWS

DAY
3

Mainframe Modernization Overview

DATE Sat, 10 Oct 2026
TIME 2 hours
TRAINER Kamal

- Mainframe Modernization Introduction
- Understanding Mainframes in today's scenario: Z-OS Hardware, Software and sub-systems USS
- Why Modernize, Case for Modernization, Benefits and Risks
- Scenario Based Overview and R's of Modernization: Re-Hosting, Re-Platforming, Re-Factoring, Re-Architecting
- Approaches/Patterns to Modernization, Hybrid Cloud Model

ARCHITECTURE-LEVEL MODERNIZATION

DAYS 4 – 5

DAY
4

Enterprise Architecture Transformation

DATE Sun, 11 Oct 2026
TIME 2 hours
TRAINER Kamal

- Legacy architecture patterns
- Modern enterprise architecture
- Monolithic vs Microservices
- Service-Oriented Architecture (SOA)
- Event-Driven Architecture (EDA)
- Exposing COBOL/CICS as APIs
- REST APIs
- SOAP Services
- OpenAPI Specifications
- API Gateway concepts

DAY 5	Cloud Integration DATE Sat, 17 Oct 2026 TIME 2 hours TRAINER Kamal	• Mainframe to Hybrid Cloud • Cloud-native architectures • Containerization concepts • Kubernetes basics LAB AWS Transform
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APPLICATION-LEVEL MODERNIZATION

DAYS 6 – 10

DAY 6	Legacy Application Assessment DATE Sun, 18 Oct 2026 TIME 2 hours TRAINER Kamal	• Understanding legacy portfolios • Application inventory • Dependency analysis • Complexity assessment • Business criticality analysis LAB ADDI + Watsonx Code Assistant for Z
DAY 7	Mainframe DevOps DATE Sat, 24 Oct 2026 TIME 2 hours TRAINER Abhiramasundhari	• DevOps principles • Traditional SDLC vs DevOps • Continuous Integration • Continuous Delivery • Release automation
DAY 8	CICS Modernization Strategies DATE Sun, 25 Oct 2026 TIME 2 hours TRAINER Srini	• Modernizing CICS applications • CICS Web Services • RESTful CICS Services • z/OS Connect LAB CICS Web Services
DAY 9	UI Modernization DATE Sat, 31 Oct 2026 TIME 2 hours TRAINER Srini	• JSON processing • Channels and Containers • Web front-end integration • z/OS Connect LAB CICS Web Services
DAY 10	Mainframe Integration Patterns DATE Sun, 01 Nov 2026 TIME 2 hours TRAINER Srini	• CICS-MQ Integration • REST Integration • SOAP Integration • External API Consumption • Event-based integration LAB CICS + MQ Integration

DATABASE AND DATA-LEVEL MODERNIZATION

DAYS 11 – 14

DAY 11	Legacy Data Landscape DATE Sat, 07 Nov 2026 TIME 1 hour TRAINER Venkat	- VSAM modernization - IMS databases - DB2 modernization - Data classification
DAY 12	Database Modernization DATE Sun, 08 Nov 2026 TIME 2 hours TRAINER Solomon	- DB2 modernization approaches - Relational to relational migration - Mainframe to cloud database migration - Data transformation techniques LAB DB2 to AWS RDS
DAY 13	Data Lake and Analytics DATE Sat, 14 Nov 2026 TIME 2 hours TRAINER Solomon	- Mainframe data extraction - Data Lake architecture - Data Warehousing - Analytics modernization LAB Datalake and Analytics
DAY 14	IMS DB Data Migration DATE Sun, 15 Nov 2026 TIME 1 hour TRAINER Venkat	- Architectural Overview of IMS - Conversion Ideas - Data Sweep concepts - Analytics modernization

OPERATIONS & PLATFORM MODERNIZATION

DAYS 15 – 16

DAY 15	CI/CD for Mainframe DATE Sat, 21 Nov 2026 TIME 2 hours TRAINER Abhiramasundhari	- Fundamentals of Cloud Technology with focus on AWS - Concept of Virtualization, - Concept of Containers in Cloud - GIT and GITHUB as SCM LAB Create Linux VM's and static webpage in AWS. GIT, GITHUB, VS CODE setup/configs
DAY 16	Devops Tools DATE Sun, 22 Nov 2026 TIME 2 hours TRAINER Abhiramasundhari	- Cobol Upgrade Advisor - DBB - WAZI Deploy workflow - Test Accelerator for Z (TAZ)

AI POWERED MODERNIZATION

DAYS 17 – 18

DAY

17

Prompt Engineering Concepts

DATE Sat, 28 Nov 2026

TIME 2 hours

TRAINER Harikrishnan

- Prompt Techniques
- Use Cases for Cobol, DB2 and CICS
- Prompts to convert code from Language to another

LAB Hands on Exercises using Different CLAUDE Prompts

DAY

18

Github CoPilot

DATE Sun, 29 Nov 2026

TIME 2 hours

TRAINER Harikrishnan

- AI-Assisted Code Generation and Development
- Automated Test Case Creation and Validation
- Defect Analysis, Debugging, and Resolution Support
- Code Refactoring and Optimization
- Automated Documentation and Knowledge Extraction
- Productivity Enhancement

LAB Hands on Exercises using Github CoPilot

CAPSTONE PROJECT

FINAL

Capstone Project

Project brief, date and evaluators to be announced.

Learning has never been so easy

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