LITC
COMPUTER EDUCATION

CISCO ™

redhat.
CERTIFIED
TRAINING PARTNER

Docker Certified Associate (DCA)

Master containerization with Docker and prepare for the Docker Certified Associate certification. Learn to build, deploy, and manage containerized applications with industry best practices and hands-on experience.

Prerequisites

- Basic Linux command line experience
- Understanding of software development lifecycle
- Familiarity with virtualization concepts
- Basic networking knowledge

Course Syllabus

Module 1: Docker Fundamentals

- Containerization concepts and benefits
- Docker architecture and components
- Docker installation and configuration
- Container lifecycle management
- Docker CLI commands and operations

Module 2: Images and Containers

- Docker image fundamentals
- Dockerfile creation and best practices
- Multi-stage builds
- Image registries and repositories
- Container runtime configuration

Reg. Office : Ground Floor P13, Metro Tower, near Mangal city, Vijay Nagar, Indore (M.P.)

8878855568, 9522220892 E-mail : info@litcindore.com, litcindore@gmail.com

Course Syllabus

Module 3: Docker Networking

- Docker networking models
- Bridge, host, and overlay networks
- Port mapping and exposure
- Network troubleshooting
- Service discovery

Module 4: Storage and Volumes

- Docker storage drivers
- Volume management
- Bind mounts and tmpfs
- Storage troubleshooting
- Data persistence strategies

Reg. Office : Ground Floor P13, Metro Tower, near Mangal city, Vijay Nagar, Indore (M.P.)

8878855568, 9522220892 E-mail : info@litcindore.com, litcindore@gmail.com

Course Syllabus

Module 5: Docker Swarm Orchestration

- Swarm mode architecture
- Service creation and management
- Rolling updates and rollbacks
- Load balancing and routing
- Swarm security and secrets

Module 6: Security and Best Practices

- Container security fundamentals
- Image scanning and vulnerability management
- Runtime security
- Access control and authentication
- Production deployment strategies

Reg. Office : Ground Floor P13, Metro Tower, near Mangal city, Vijay Nagar, Indore (M.P.)

8878855568, 9522220892 E-mail : info@litcindore.com, litcindore@gmail.com