

## **Nutanix Multicloud Infrastructure Design (NMCID)**

OEM: Nutanix • Duration: 5 Days (40 hrs) • Code: NCX-MCI

### **COURSE MODULES & TOPICS**

#### **Phase 1: Customer Consultation and Requirement Gathering**

- Gathering Business, Technical, Functional, and Non-Functional Requirements
- Identifying Risks, Constraints, and Assumptions with Impact Analysis
- Completing Organizational Readiness Assessments for HCI Adoption
- Formulating Migration and Rollback Strategies
- Mapping Business Outcomes to Technical Solutions
- Considering and Presenting Design Options and Alternatives
- Making Business-Driven Design Decisions
- Creating Enterprise-Grade Documentation
- Presenting Solutions to Stakeholders

#### **Phase 2: Conceptual and Logical Design**

- Scalability, Resiliency, and Performance Considerations
- Management and Control Plane Architecture
- Data Protection and Recoverability Planning
- Capacity Planning and Logical Sizing
- Compliance and Security Framework Implementation
- Virtual Machine Logical Design
- Third-Party Product Integration
- Nutanix Validated Design (NVD) Methodology

#### **Phase 3: Physical Design and Implementation**

- Hardware Sizing and Justification
- Storage Infrastructure Configuration
- Platform Selection and Networking Topology Design
- Physical Virtual Machine Component Design
- Management Component Configuration
- Data Center Environmental and Power Specifications

#### **Technical Deep Dives (All Phases)**

- Planning for Successful Migrations
- Supporting Multiple Hypervisors — Multi-hypervisor Design
- Infrastructure, Hardware, and Resource Sizing Tools
- Designing for Resiliency and High Availability
- Network Design for HCI
- HCI Storage Configuration Options
- Supporting Security and Regulatory Compliance Requirements
- Integrating Disaster Recovery Solutions
- Business-Critical Applications: Exchange, SQL Server, Oracle, Splunk, SAP
- Virtual Desktop Infrastructure (VDI) Solutions