LITC
COMPUTER EDUCATION

CISCO

Certified Kubernetes Application Developer (CKAD)

- Master Kubernetes Application Development with CNCF's Developer-Focused Certification.
- The Certified Kubernetes Application Developer (CKAD) exam certifies that users can design, build, configure, and expose cloud native applications for Kubernetes.

Prerequisites

- Developer-focused certification
- Application lifecycle management
- Cloud-native application design
- CNCF industry recognition

Module 1. Application Design and Build (20%)

- Define, build and modify container images
- Understand Jobs and CronJobs
- Understand multi-container Pod design patterns
- Utilize persistent and ephemeral volumes

Module 2. Application Deployment (20%)

- Use Kubernetes primitives to implement common deployment strategies.
- Understand Deployments and how to perform rolling updates.
- Use the Helm package manager to deploy existing packages.

Module 3. Application Observability and Maintenance (15%)

- Understand API deprecations
- Implement probes and health checks
- Use provided tools to monitor Kubernetes applications
- Utilize container logs
- Debug in Kubernetes

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Module 4. Application Environment, Configuration and Security (25%)

- ♣ Discover and use resources that extend Kubernetes (CRD)
- ♣ Understand authentication, authorization and admission control
- ♣ Understanding and defining resource requirements, limits and quotas
- ♣ Understand ConfigMaps
- ♣ Create & consume Secrets
- ♣ Understand ServiceAccounts
- ♣ Understand SecurityContexts.

Module 5. Services and Networking (20%)

- ♣ Demonstrate basic understanding of NetworkPolicies
- ♣ Provide and troubleshoot access to applications via services
- ♣ Use Ingress rules to expose applications