AI Solutions on Cisco Infrastructure Essentials

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The AI Solutions on Cisco Infrastructure Essentials (DCAIE) v1.0 training covers the essentials of deploying, migrating, and operating AI solutions on Cisco data center infrastructure. You'll be introduced to key AI workloads and elements, as well as foundational architecture, design, and security practices critical to successful delivery and maintenance of AI solutions on Cisco infrastructure

How you'll benefit
This class will help you:

- Gain the knowledge you need to deploy, migrate, and operate AI solutions on Cisco data center infrastructure
- Qualify for professional-level job data center roles
- Earn 34 CE credits toward recertification

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Network Designers
- Network Administrators
- Storage Administrators
- Network Engineers
- Systems Engineers
- Data Center Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators/Partners
- Field Engineers
- Server Administrators
- Network Managers
- Program Managers
- Project Managers

Course Duration
4 days
Course Price
$3,495.00 or 35 CLCs
Methods of Delivery
- Instructor Led
- Virtual ILT
- On-Site

Prerequisites
The knowledge and skills you are recommended to have before attending this training are:

- Cisco UCS compute architecture and operations
- Cisco Nexus switch portfolio and features
- Data Center core technologies

OUTLINE

Module 1: Fundamentals of AI

Module 2: Generative AI

Module 3: AI Use Cases

Module 4: AI-ML Clusters and Models

Module 5: AI Toolset Mastery - Jupyter Notebook

Module 6: AI Infrastructure

Module 7: AI Workload Placements and Interoperability

Module 8: AI Policies

Module 9: AI Sustainability

Module 10: AI Infrastructure Design

Module 11: Key Network Challenges and Requirements for AI Workloads

Module 12: AI Transport

Module 13: Connectivity Models

Module 14: AI Network

Module 15: Architecture Migration to AI/ML Network

Module 16: Application-Level Protocols

Module 17: High Throughput Converged Fabrics

Module 18: Building Lossless Fabrics

Module 19: Congestive Visibility

Module 20: Data Preparation for AI

Module 21: AI/ML Workload Data Performance

Module 22: AI-Enabling Hardware

Module 23: Compute Resources

Module 24: Compute Resource Solutions

Module 25: Virtual Resources

Module 26: Storage Resources

Module 27: Setting Up AI Cluster

Module 28: Deploy and Use Open Source GPT Models for RAG

LAB OUTLINE

Lab 1: AI Toolset—Jupyter Notebook

Lab 2: AI/ML Workload Data Performance

Lab 3: Setting Up AI Cluster

Lab 4: Deploy and Use Open Source GPT Models for RAG