



VCE, the Virtual Computing Environment Company formed by Cisco and EMC with investments from VMware and Intel, accelerates the adoption of converged infrastructure and cloud-based computing models that dramatically reduce the cost of IT while improving time to market for customers.

Through the Vblock platform, VCE delivers the industry's first completely integrated IT offering with end-to-end vendor accountability. Their solutions cover horizontal applications, vertical industry offerings, and application development environments, allowing customers to focus on business innovation instead of integrating, validating and managing IT infrastructure.

Global Knowledge, the worldwide leader in IT and business skills training and ONLY Accredited VCE training resource in Europe, the Middle East and Africa (EMEA), is uniquely positioned to develop the skills needed to optimise business processes and application resource utilising Vblock technology.

## Designing a VCE Vblock Architecture (VCEA)

### Overview

Design and planning of a Vblock architecture begins with a thorough analysis of the application and services the solution will provide. From this analysis, an appropriate Vblock configuration is sized and the details necessary to implement the solution defined and documented. The VCE methodology, tools, and documentation for performing an end-to-end analysis and design are leveraged to ensure the solution is designed to meet the requirements. The outcome of the analysis and design phase is a build/implement plan used to pre-build the solution at the VCE facility or at the customer's site.

### Audience

The audience for this class is VCE, Parent, and Partner Solution Architects, responsible for planning and designing VCE Vblock solutions. Participants may be associated with either presales or post sales aspects of a planning and design process.

### Prerequisites

To understand the content and successfully complete this course, participants must have foundation-level knowledge of the compute, network, and storage technologies that comprise Vblock, and must possess one or more of the following certifications:

- EMC Proven Professional Technology Architect
- Cisco Certified Design Associate (CCDA) and Cisco Data Center Unified Computing Design (DCUCD)
- VMware VCP4 and VCAP4-DCD

### Course Objectives

Upon successful completion of this course, participants will be able to:

- Based on Vblock design standards, and data gathered from real-world scenarios, determine the appropriate Vblock configuration and high-level design.
- Analyse application and service requirements and determine the specific configuration details for the UCS based on Cisco best practices and VCE standards. Examples of these details are IP addressing, VLANs, VSANs, pools, policies, templates, etc.
- Analyse application and service requirements and determine the storage configuration based on EMC best practices and VCE standards. Examples of these specific details are storage system layout, number, size, protection of LUNs, zoning, mapping and masking, NFS exports, etc.
- Analyse application and service requirements and determine the ESX and vSphere configuration based on VMware best practices and VCE standards. Examples of these details are Datacenter, Cluster, host, resource pool, virtual machine hierarchy and organisation.
- Develop and document a plan that defines the end-to-end solution to be used by the implementation team to build the solution as designed.
- Recognise when solution requirements fall outside standard configuration and deployment guidelines and address unique design and implementation issues by identifying and leveraging appropriate resources and subject matter experts.

VBLOCK01

# Why Choose Global Knowledge?

## Why Choose Us for Your IT and Business Training?

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- More CCIE, CCSI, MCSE, MCSA, and MCITP instructors than any other training provider. All Microsoft instructors are MCTs.
- Our Project Management course instructors are experienced, PMP®-certified professionals.
- Many of our instructors are also consultants, bringing their real-world knowledge, tips, and best practices into the classroom.

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#### Our Business Training includes:

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## Experience Award-Winning Training

- VMware Global Education Partner of the Year
- Cisco Worldwide Learning Partner Award of Excellence for Collaboration
- Microsoft Learning Competency Marketing Acceleration Partner of the Year
- TrainingIndustry.com List of Top 20 Companies
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- PMI Product of the Year
- TrainingIndustry.com Top 20 IT Training Company
- IBM Outstanding Contributor
- #1 Most Recommended IT Training Provider\*
- #1 in Customer Satisfaction\*

\* From a Q2 2011 survey of the "IT Professional Advisory Panel," a blind panel comprised of IT professionals. Survey data collected by Vision Critical LLC.

