

## Veeam Certified Engineer (VMCE) — Advanced Design & Optimization

Length : 2 Days  
Delivery Method : Instructor-led (Classroom)

### Course Overview

The two-day, technical deep dive Advanced Design and Optimization training course is focused on teaching IT professionals the skills to effectively size, scope, design, optimize, automate and troubleshoot a Veeam Availability Suite deployment. The class also covers security, audit and compliance considerations when working with Veeam Availability Suite.

### Audience Profile

System Administrators, Engineers and Architects responsible for multiple Veeam deployments as a professional services consultant or those within large, diverse clients providing centralized IT services to the wider business.

### Certification

Completion of this course satisfies the prerequisite for taking the VMCE Advanced: Design & Optimization v1 exam. Please note, passing both the VMCE and VMCE-ADO exams will grant the candidate the Veeam Certified Architect (VMCA) milestone certification.

### At Course Completion

- Accurately scope and size a technical environment, evaluating Veeam Availability Suite design decisions against current and future technical and business landscapes
- Demonstrate the value of a Veeam deployment to both internal and external clients, ensuring designs that maximise Return on Investment
- Guarantee and verify the recoverability of data to the business
- Optimize configurations, ensuring workload impact on network, cpu and storage resources is within acceptable levels for the business.
- Interrogate log files for detailed root cause analysis

### Pre-Requisites

Attendees should be experienced professionals with exceptional knowledge of servers, storage, networks and virtualization. Experienced with Veeam, attendees should ideally possess the VMCE, or have equivalent knowledge

#### AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 068897  
Main Line: +65 6661 0888 | Fax: +65 6661 0886  
Email: [enquiries@AvantusTraining.com](mailto:enquiries@AvantusTraining.com)  
[www.AvantusTraining.com](http://www.AvantusTraining.com)

## Course Outline

### Module 1: Introduction

#### Lesson

- Always-On™
- Design and Sizing

### Module 2: Design and Sizing

#### Lesson

- DNS and name resolution
- Veeam BackUp Server
- Veeam BackUp Server Database
- Veeam BackUp Server Locations
- Veeam BackUp Server Proxy Sizing
- Transport Modes
- Repository Server
- Estimating Repository Capacity
- WAN Accelerator
- Interaction With Hypervisors

### Module 3: Infrastructure Assessment

#### Lesson

- Stages of POC
- Important Data to Collect
- Network and Firewall
- Veeam ONETM

### Module 4: Security

#### Lesson

- Permissions
- MS Hyper-V
- VMware vCenter
- App-aware Processing
- MS Active Directory
- MS SQL Server
- MS Exchange
- MS Sharepoint
- Oracle

### Module 5: Optimizations

#### Lesson

- Protecting Veeam Backup & Replication Configuration
- Proxy and Repository Servers
- Scale-out Backup Repository
- Deduplication Appliances
- WAN Accelerator

#### **AVANTUS TRAINING PTE LTD**

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 068897

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: [enquiries@AvantusTraining.com](mailto:enquiries@AvantusTraining.com)

[www.AvantusTraining.com](http://www.AvantusTraining.com)

- Tape Server, Drives and Drivers
- Veeam Backup Enterprise Manager
- Indexing
- Anti-Virus on Veeam Servers and Guest VMs

**Module 6: Automation****Lesson**

- Veeam Backup Server
- Silent Updates of Backup Server
- VMware vSphere Tags

**Module 7: Audit and Compliance****Lesson**

- Auditing
- Compliance
- SureBackup and SureReplica

**Module 8: Troubleshooting****Lesson**

- Advanced troubleshooting and diagnostic techniques and methodologies
- Detailed understanding of log files, creation reading and searching
- Troubleshooting mode

**AVANTUS TRAINING PTE LTD**

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 068897

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: [enquiries@AvantusTraining.com](mailto:enquiries@AvantusTraining.com)

[www.AvantusTraining.com](http://www.AvantusTraining.com)