

Veeam Certified Engineer — Advanced (VMCE-A): Design & Optimization V1

Course description

The **Veeam® Certified Engineer — Advanced (VMCE-A): Design & Optimization V1** is a two-day technical course for both professional services consultants and system administrators. The course covers Veeam Availability Suite™ design and optimization and is based on best practices from Veeam solutions architects. This class is designed for those who have already taken the three-day **VMCE Standard** course and want to acquire the **Veeam Certified Architect (VMCA)** designation.

Participants:




- System engineers/Administrators
- Backup /Virtualization administrators
- Solution architects/Consultants

Generally speaking, any IT specialist interested in becoming an industry-recognized architect for Veeam Availability Suite may participate in the course.

Prerequisites:

- A solid virtualization, backup and recovery knowledge base
- **Already attended a VMCE Standard three-day course**
- If attending a five-day, bundle course (**VMCE Standard**, then **VMCE-A: Design & Optimization V1** in one week), prerequisites can be met

Objectives:

VMCE Standard	VMCE-A: Design & Optimization V1	VMCA
Overview course: Install, configure & manage (Three days + exam)	Advanced architecture and deployment (Two days + exam)	VMCE Standard + VMCE-A: Design & Optimization V1
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This certification is an excellent investment for IT professionals looking to increase productivity, reduce operating costs, increase potential for personal career advancement and gain recognition from employers and customers. By completing the VMCE-A: Design & Optimization V1 course, together with the VMCE Standard certification, you will be able to:

- Maximize your expertise on consulting/professional services for the Veeam Availability Suite solution
- Aim for the **VMCA** title and comply with some of the certifications requirements for **Platinum ProPartners** and **Veeam Accredited Service Partners (VASPs)**
- Gain professional advantage with the highest level of Veeam technical certification
- Aim for career advancement

Syllabus:

VMCE-A: Design & Optimization V1

1. Module 1: Introduction
2. Module 2: Design and sizing
 - 2.1. DNS and name resolution
 - 2.2. Veeam backup server
 - 2.3. Backup and replication database
 - 2.4. Proxy server
 - 2.5. Transport modes
 - 2.6. Repository server
 - 2.7. WAN accelerator
 - 2.8. Interaction with hypervisors
3. Module 3: Infrastructure
 - 3.1. Stages of Proof of Concept
 - 3.2. Assessment using Veeam ONE™
 - 3.3. Important data to collect (Veeam ONE + infrastructure accounts)
4. Module 4: Security
 - 4.1. Permissions
5. Module 5: Design scenario: Part 1
 - 5.1. Discovery
 - 5.2. Create a design based on the customer environment

6. Module 6: Optimizations

- 6.1. Backup and replication database
- 6.2. Proxy server
- 6.3. Repository server
- 6.4. WAN accelerator
- 6.5. Tape
- 6.6. Veeam Backup Enterprise Manager
- 6.7. Indexing
- 6.8. Antivirus on Veeam servers and guest VM (if VSS is used)
- 6.9. Protecting Veeam Backup & Replication™ configuration

7. Module 7: Design scenario: Part 2

- 7.1. Create a design based on the customer's evolving environment

8. Module 8: Automation

- 8.1. Veeam backup server
- 8.2. VMware vSphere tags

9. Module 9: Audit and compliance

- 9.1. Auditing
- 9.2. Compliance
- 9.3. SureBackup® and SureReplica

10. Module 10: Troubleshooting

- 10.1. Deep dive into reading log files
- 10.2. Common issues
- 10.3. Troubleshooting mode (SureBackup/SureReplica)