



VMCE

**Veeam Certified Engineer v12:
On-Demand**



Course duration: On-Demand (30-day access)

Theory/labs: 148/52

Overview

The Veeam® Certified Engineer (VMCE) v12: On-Demand training course is an online, self-paced program focused on teaching IT professionals the skills to configure, manage, and support a Veeam Backup & Replication v12.x solution.

With extensive online lectures, in-browser “clickable” labs, and knowledge checks for assessment, the course promotes situational resilience in responding to recovery scenarios. It enables administrators and engineers to effectively protect and manage data in an ever-changing technical and business environment, delivering tangible benefits to businesses in the digital world.

This course is based on Veeam Backup & Replication v12.x, part of the Veeam Data Platform.

Audience

This course is suitable for anyone responsible for configuring, managing, or supporting a Veeam Backup & Replication v12.x environment.

Prerequisites

Students should have fundamental IT experience working with networking, servers, storage, cloud, virtualization, and operating systems, as well as familiarity with the core concepts of Veeam Backup & Replication through hands-on experience. It is recommended that students have a minimum of six (6) months commercial experience with Veeam prior to taking this course.

Certification

Completion of this course satisfies the prerequisite training required for scheduling your VMCE v12: Veeam Certified Engineer v12 2024 exam.

Objectives

After completing this course, students will be able to:

- Describe Veeam security concepts.
- Given a scenario, configure a backup job and a backup copy job.
- Explain network attached storage (NAS) backups and configuration.
- Describe Veeam's replication capabilities.
- Determine appropriate use case for backups, replicas and/or continuous data protection.
- Configure backup infrastructure components, including proxy and repository servers.
- Given a scenario, evaluate when and how to apply immutability settings.
- Given a scenario, recover data from backups.

Course Contents

Data protection strategies

Review of key data protection strategies that ensure the safety of your data.

Risk scenarios

Explore different risk scenarios. What risks do we face daily within our environment?

Core components

Review of Veeam Backup & Replication components required in most deployments, their purpose and key system requirements.

Initial security considerations

Describe strategies and tools to secure the Veeam backup server to avoid unauthorized access and data leaks.

Virtual machine backup

Efficiently protect VMware and Hyper-V virtual machines based on well-defined SLAs through the creation of backup jobs.

Agent backup

Identify the use of protection groups to automate the installation of Veeam Agents and protecting workloads with agent backup jobs.

Backup data optimizations

Analyze features and settings that allow backup storage optimization, faster backups, and data consistency.

Immutability and hardened repositories

Describe backup data protection mechanisms to avoid premature deletion and unwanted modifications. Identify characteristics and deployment steps of Veeam Hardened Repositories to achieve backup data immutability.

Object storage

Review backing up to object storage, which object storage solutions are supported and considerations when using this type of repositories.

Transport modes

Analyze different ways data can be read from the production environment and their benefits and considerations.

Backup copies

Ensure recoverability and adhere to the 3-2-1-1-0 Rule with backup copy jobs.

Scale-out Backup Repository™

Describe architecture, placement policies, data tiers and management of Scale-out Backup Repositories.

Moving or copying backups

Identify use cases for workload and backup migrations with VeeamMover.

Replication

Describe use cases, architectures and features of replication jobs and continuous data protection (CDP) policies.

Verifying recoverability

Create automated tests to ensure recoverability with SureBackup and SureReplica.

Veeam Backup Enterprise Manager

Describe the use cases for Veeam Backup Enterprise Manager.

Incident Response Planning

Integrating Veeam Backup & Replication into your incident response plan.

Recovery scenarios and features

Implications of different recovery methods and selecting the correct recovery method.

Hands-On Labs

Practice recovering a variety of data types with Clickable Labs.

Veeam Data Platform

Identify and explain the purpose of each core product within the Veeam Data Platform and articulate potential use cases for them.