

## ***BR420-EN Veeam Backup & Replication v12.1: Architecture and Design***

### **Kurzbeschreibung:**

The three-day, **BR420-EN Veeam® Backup & Replication™ v12.1: Architecture and Design** training is focused on teaching IT professionals how to effectively architect a Veeam solution through attaining technical excellence following the Veeam Architecture Methodology used by Veeam's own Solution Architects. During the three days, attendees will explore the goals of requirement gathering and infrastructure assessment and use that information to design Veeam solutions within team exercises. Attendees will analyze considerations when turning logical designs into physical designs and describe the obligations to the implementation team that will implement that design. Other topics covered will include security, governance and validation impacts when architecting a Veeam solution and how to build these into the overall design. Attendees should expect to contribute to team exercises, present designs and defend decision making.

### **Zielgruppe:**

- Senior Engineers and Architects responsible for creating architectures for Veeam environments

### **Voraussetzungen:**

Ideally VMCE certified, attendees of the course **BR420-EN Veeam® Backup & Replication™ v12.1: Architecture and Design** should have extensive commercial experience with Veeam and a broad sphere of technical knowledge of servers, storage, networks, virtualization and cloud environments.

Alternatively, we recommend attending one of the following two courses in advance:

- **BR410-EN Veeam Backup & Replication v12.1(VMCE) Configure, Manage and Recover**
- **BR418-EN Veeam v12.1 (VMCE) with Storage-Connection**

### **Sonstiges:**

**Dauer:** 3 Tage

**Preis:** 2480 Euro plus Mwst.

### **Ziele:**

After completing the training **BR420-EN Veeam® Backup & Replication™ v12.1: Architecture and Design**, participants should be able to:

- Design and create a Veeam solution in a real-world environment
- Describe best practices, review an existing infrastructure and assess business/project requirements
- Identify relevant infrastructure metrics and perform component (storage, CPU, memory) quantity sizing
- Provide implementation and testing guidelines in line with designs
- Innovatively address design challenges and and pain points, matching appropriate Veeam Backup & Replication features with requirements

After successful completion of the two courses **BR410 and BR420** and their exams, you may call yourself "**Veeam Certified Architect (VMCA)**"

You can take the exam after the course at a Pearson VUE test centre. It consists of 40 questions that have to be answered in 60 minutes. You need a score of at least 70% to pass the exam. You can find detailed information about the exam [here](#).

You can take a trial test [here](#).

For further exercises, the LABS are still available 10 working days after the course.

## Inhalte/Agenda:

- **◆ Introduction**
  - ◆ **Review the architecture principles**
    - ◇ Explore what a successful architecture looks like
    - ◇ Review Veeam's architecture methodology
    - ◇ Discovery
    - ◇ Analyze an existing environment
    - ◇ Uncover relevant infrastructure metrics
    - ◇ Uncover assumptions and risks
    - ◇ Identify complexity in an environment
  - ◆ **Conceptual design**
    - ◇ Review scenarios and data from the discovery phase
    - ◇ Identify logical groups of objects that will share resources based on requirements
    - ◇ Create a set of detailed tables of business and technical requirements, constraints, assumptions and risks
    - ◇ Review infrastructure data with each product component in mind
    - ◇ Create high level design and data flows
  - ◆ **Logical design**
    - ◇ Match critical components and features of VBR with requirements
    - ◇ Create logical groups
    - ◇ Determine location of components and relationship to logical groups
    - ◇ Aggregating totals of component resources needed per logical grouping
    - ◇ Calculate component (storage, CPU, memory) quantity sizing
  - ◆ **Physical design**
    - ◇ Convert the logical design into a physical design
    - ◇ Physical hardware sizing
    - ◇ Create a list of physical Veeam backup components
  - ◆ **Implementation and Governance**
    - ◇ Review physical design and implantation plan
    - ◇ Review Veeam deployment hardening
    - ◇ Describe the architect's obligations to the implementation team
    - ◇ Provide guidance on implementation specifics that relate to the design
  - ◆ **Validation and Iteration**
    - ◇ Provide a framework for how to test the design
    - ◇ Further develop the design according to a modification scenario