Administration of Veritas Backup Exec™ 15
Study Guide

The following tables list the Veritas VCS Certification exam objectives for the Administration of Veritas Backup Exec 15 exam and how these objectives align to the Veritas Backup Exec 15: Administration course.

Recommended courses to prepare for this exam:
- Veritas Backup Exec 15: Administration (ILT/VA)
- Veritas Backup Exec 15: Install and Configure – 3 day (ILT/VA) and
- Veritas Backup Exec 15: Manage and Administer – 2 day (ILT/VA)

The product documentation for this exam is:
- Veritas Backup Exec 15 Customer Licensing Guide
- Veritas Backup Exec 15 Readme First Release Notes
- Veritas Backup Exec 15 Administrator's Guide
- Veritas Backup Exec 15 Administrator's Guide Addendum
- Symantec Backup Exec EOL Items
- Veritas Backup Exec 15 Software Compatibility List
- Veritas Backup Exec 15 Hardware Compatibility List

Recommended Veritas Backup Exec 15 eLibrary Modules:
- What’s new in Backup Exec 15?
- End of Life: 32-bit Backup Exec Server
- Backup Exec 15: Installation changes
- Upgrading and migrating to Backup Exec 15
- Backup Exec 15 Database Security Enhancements
- Backup Exec 15: Capacity Edition Lite
- Backup Exec 15: VMware vSphere 6.0/ ESXi 6.0 Support

Examples of Hands-on Experience (Real World or Virtual):
- Recommended 3-6 months experience working with Symantec Backup Exec and 3 months experience working with Veritas Backup Exec 15 in a production or lab environment.
- Identify installation/agent and option prerequisites.
- Install, configure, manage, monitor, maintain, and troubleshoot the components of Veritas Backup Exec 15.
- Configure the Backup Exec services account and database.
- Verify installation and perform basic troubleshooting of installation.
- Perform job management and monitoring.
- Generate reports.
For more information on the Veritas Certification Program, visit [http://go.veritas.com/certification](http://go.veritas.com/certification).

**EXAM AREA 1**

**Veritas Backup Exec 15 Architecture, Installation, and Concepts**

<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe the components, features, and architecture of Veritas Backup Exec 15. | **Course: Veritas Backup Exec 15: Install and Configure**  
Lesson 1: Backup Exec Fundamentals  
Topics:  
- Symantec's Backup Exec solution offerings  
- Backup Exec architecture  
**Veritas Backup Exec 15: Administrator's Guide**  
Chapters:  
- Introducing Backup Exec 15  
- Backups  
- Restores  
- Tape storage  
- Reports  
- Simplified Disaster Recovery  
Appendix A: Symantec Backup Exec Agent for Windows |

<table>
<thead>
<tr>
<th>Describe the requirements and procedure for licensing, installing, updating, and upgrading Veritas Backup Exec 15 and Veritas Backup Exec 15 agents/options.</th>
</tr>
</thead>
</table>
| - Course: Veritas Backup Exec 15: Install and Configure  
- Lesson 2: Installing and Licensing Veritas Backup Exec 15  
- Topics:  
  - New Installation  
  - Typical installation  
  - Custom installation  
  - Updating Veritas Backup Exec 15  
  - Lesson 4: Upgrading and migrating to Backup Exec 15  
  - Backup Exec 15 Upgrade paths  
  - Agent for Windows  
  - Performing step upgrades  
  - Upgrading from Backup Exec 2010 R3 and earlier  
- Veritas Backup Exec 15: Administrator's Guide  
- Chapters: |
<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| | - Introducing Backup Exec 15  
| | - Installation  
| | - Backups  
| | - Appendix D: Symantec Backup Exec Agent for Microsoft Hyper-V  
| | - Veritas Backup Exec 15 Software Compatibility List  
| Describe how to configure preferences and global settings in Veritas Backup Exec 15. | - Veritas Backup Exec 15: Administrator's Guide  
| | - Chapters:  
| | - Installation  
| | - Restores  
| | - Job management and monitoring  
| | - Disk-based and network-based storage  
| | - Configuration and settings  
| | - Simplified Disaster Recovery  
| | - Appendix D: Symantec Backup Exec Agent for Microsoft Hyper-V  
| Describe how to configure job defaults for different storage device types. | Course: Veritas Backup Exec 15: Install and Configure  
| | Lesson 7: Backing up Data  
| | - Backup Settings – Backup Methods  
| | - Backup Settings – Additional Settings  
| | Veritas Backup Exec 15: Administrator's Guide  
| | Chapters:  
| | - Backups  
| | - Tape storage  
| | - Storage operations  
| | - Configuration and settings  

**EXAM AREA 2**  
Managing Devices, Media, and Backup Exec Servers

<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe how to configure and manage Veritas Backup Exec 15 devices and storage pools. | Course: Veritas Backup Exec 15: Install and Configure  
| | Lesson 5: Storage Devices  
| | Topics:  
| | - Configuring disk storage devices  

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<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe how to manage backup sets and media rotation with media sets.            | Course: Veritas Backup Exec 15: Install and Configure  
Lesson 6: Data Management  
- Managing tapes with media management  
Veritas Backup Exec 15: Administrator's Guide  
Chapters:  
- Tape storage  
- Disk-based and network-based storage                                                                                                                                 |
| Explain how to perform device and media operations and storage operation jobs.    | Course: Veritas Backup Exec 15: Install and Configure  
Lesson 6: Data Management  
Topic: Managing tapes with media management  
Veritas Backup Exec 15: Administrator's Guide  
Chapter:  
- Tape storage  
- Storage operations                                                                                                                                 |
| Describe media catalog concepts, functionality, and implementation.               | Course: Veritas Backup Exec 15: Install and Configure  
Lesson 6: Data Management  
Topic: Media catalogs  
Veritas Backup Exec 15: Administrator’s Guide  
Chapters:  
- Tape storage  
- Restores                                                                                                                                 |
### EXAM AREA 3
### Protecting Data

<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe how to manage backup sets using Data Lifecycle Management (DLM).</td>
<td>Course: Veritas Backup Exec 15: Install and Configure</td>
</tr>
<tr>
<td></td>
<td>Lesson 6: Data Management</td>
</tr>
<tr>
<td></td>
<td>Topics:</td>
</tr>
<tr>
<td></td>
<td>• Managing media</td>
</tr>
<tr>
<td></td>
<td>• Data Lifecycle Management</td>
</tr>
<tr>
<td></td>
<td>Veritas Backup Exec 15: Administrator's Guide</td>
</tr>
<tr>
<td></td>
<td>Chapters:</td>
</tr>
<tr>
<td></td>
<td>• Backups</td>
</tr>
<tr>
<td></td>
<td>• Disk-based and network-based storage</td>
</tr>
<tr>
<td>Describe how to enable data encryption and manage the keys.</td>
<td>Veritas Backup Exec 15: Administrator's Guide</td>
</tr>
<tr>
<td></td>
<td>Chapters:</td>
</tr>
<tr>
<td></td>
<td>• Tape storage</td>
</tr>
<tr>
<td></td>
<td>• Restores</td>
</tr>
<tr>
<td></td>
<td>• Configuration and settings</td>
</tr>
<tr>
<td>Describe the backup methods, settings, logon accounts, stages, and schedules supported by Veritas Backup Exec 15.</td>
<td>Course: Veritas Backup Exec 15: Install and Configure</td>
</tr>
<tr>
<td></td>
<td>Lesson 7: Backing Up Data</td>
</tr>
<tr>
<td></td>
<td>Topics:</td>
</tr>
<tr>
<td></td>
<td>• Adding a server</td>
</tr>
<tr>
<td></td>
<td>• Backup selections</td>
</tr>
<tr>
<td></td>
<td>• Accounts and Credentials in Backup Exec</td>
</tr>
<tr>
<td></td>
<td>• Adding a Backup Task</td>
</tr>
<tr>
<td></td>
<td>• Backup Settings: Backup Methods</td>
</tr>
<tr>
<td></td>
<td>• Backup Settings: Additional Settings</td>
</tr>
<tr>
<td></td>
<td>• Backup Stage</td>
</tr>
<tr>
<td></td>
<td>Veritas Backup Exec 15: Administrator's Guide</td>
</tr>
<tr>
<td></td>
<td>Chapters:</td>
</tr>
<tr>
<td></td>
<td>• Backups</td>
</tr>
<tr>
<td></td>
<td>• Conversion to virtual machines</td>
</tr>
<tr>
<td></td>
<td>• Configuration and settings</td>
</tr>
</tbody>
</table>

Describe the procedures and purposes for managing
<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| multi-server backup jobs. | Configure Lesson 7: Backing Up Data Topics:  
- Multi-server backup definition  
- Server Selections |
| Describe how to protect computers using Simplified Disaster Recovery and convert to virtual options in Veritas Backup Exec 15. | Course: Veritas Backup Exec 15: Install and Configure Lesson 11: Simplified Disaster Recovery Topics:  
- Simplified Disaster Recovery fundamentals  
- Simplified Disaster Recovery: Backup  
- Installing the SDR disk creation wizard  
- Creating an SDR disk image (.iso) file  
Lesson 12: Virtual Machine Conversion Topics:  
- Conversion to virtual machines fundamentals  
- One-time convert to virtual  
- Backup and Convert Simultaneously  
- Backup and Convert on a schedule  
- Convert from a backup set  
- Virtual conversion options  
- Conversion Considerations |

EXAM AREA 4
Restoring Data

<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe different restore methods and the options available to restore data from backups.</td>
<td>Course: Veritas Backup Exec 15: Install and Configure Lesson 9: Restoring Data</td>
</tr>
<tr>
<td>VCS Exam Objectives</td>
<td>Course Topics</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Topics:</td>
<td></td>
</tr>
<tr>
<td>• Restore job basics</td>
<td></td>
</tr>
<tr>
<td>• Restore settings</td>
<td></td>
</tr>
<tr>
<td>• Restoring data from single backup set</td>
<td></td>
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<tr>
<td>• Restoring data from backup job</td>
<td></td>
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<tr>
<td>• Restoring System State</td>
<td></td>
</tr>
<tr>
<td>• Restoring Shadow Copy Components</td>
<td></td>
</tr>
</tbody>
</table>

**Veritas Backup Exec 15: Administrator’s Guide**

**Chapters:**

- Restores
- Tape Storage
- Symantec Backup Exec Agent for Microsoft Exchange Server
- Symantec Backup Exec Agent for VMware
- Symantec Backup Exec Agent for Microsoft SQL Server
- Storage operations

| Describe how media catalogs are used in restore operations. | Course: Veritas Backup Exec 15: Install and Configure
Lesson 6: Data Management
Topic: Media Catalogs
Lesson 9: Restoring Data
Topics: |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Restoring data from tape</td>
<td>• Restoring data from tape</td>
</tr>
<tr>
<td>• Restoring data from backup job</td>
<td>• Restoring data from backup job</td>
</tr>
</tbody>
</table>

**Veritas Backup Exec 15: Administrator’s Guide**

**Chapter: Restores**

| Describe how to recover systems using Simplified Disaster Recovery (SDR) or traditional backups. | Course: Veritas Backup Exec 15: Install and Configure
Lesson 9: Restoring Data
Topics: |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Online Disaster Recovery</td>
<td>• Online Disaster Recovery</td>
</tr>
<tr>
<td>• Restoring System State</td>
<td>• Restoring System State</td>
</tr>
<tr>
<td>• Restoring Shadow Copy Components</td>
<td>• Restoring Shadow Copy Components</td>
</tr>
</tbody>
</table>

**Lesson 11: Simplified Disaster Recovery**

**Topics:**

- Recovering a server with SDR
- Windows Storage Pools and Spaces
- SDR additional options
### EXAM AREA 5

**Maintenance Tasks (Monitoring, Troubleshooting, Performance Tuning, and Database Management)**

<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Given a scenario, describe how to restore data from multiple backup sets. | Course: Veritas Backup Exec 15: Install and Configure  
Lesson 9: Restoring Data  
Topic: Restoring data from multiple backup sets  
Veritas Backup Exec 15: Administrator’s Guide  
Chapter: Restores |

Describe how to monitor Veritas Backup Exec 15 activity using the Job Monitor and other views.  
Course: Veritas Backup Exec 15: Install and Configure  
Lesson 2: Installing and Licensing Backup Exec 15  
Topic: Launching Backup Exec 15  
Veritas Backup Exec 15: Administrator's Guide  
Chapters:  
- Backups  
- Job management and monitoring  
- Getting Started

Describe how to manage alerts, error-handling rules, notifications, and applying updates.  
Course: Veritas Backup Exec 15: Install and Configure  
Lesson 7: Backing Up Data  
Topic: Backup Settings- Additional Settings  
Veritas Backup Exec 15: Administrator’s Guide  
Chapters:  
- Backups  
- Getting Started  
- Job management and monitoring  
- Alerts and notifications  
- Installation

Describe the function and maintenance of the Veritas  
Veritas Backup Exec 15: Administrator’s Guide
<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backup Exec 15 database.</td>
<td>Chapters: Configuration and settings</td>
</tr>
</tbody>
</table>
| Given a scenario, describe basic tuning processes to improve Veritas Backup Exec 15 performance. | Veritas Backup Exec 15: Administrator's Guide  
Chapter: Troubleshooting Backup Exec  
Appendix M: Symantec Backup Exec Advanced Disk-based Backup Option |
| Describe how to troubleshoot Veritas Backup Exec 15 using the available tools.     | Veritas Backup Exec 15: Administrator's Guide  
Chapter: Troubleshooting Backup Exec  
Appendix M: Symantec Backup Exec Advanced Disk-based Backup Option |

**EXAM AREA 6**

**Backup Exec Agents and Advanced User Options**

<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe the function, uses, and administration of the NDMP (Network Data Management Protocol), and Deduplication options as well as the Backup Exec Command Line Interface. | Course: Veritas Backup Exec 15: Install and Configure  
Lesson 5: Storage Devices  
- Configuring disk storage devices  
- Configuring tape storage  
Appendix A: Storage Devices  
Course: Veritas Backup Exec 15: Manage and Administer  
Lesson 8: Deduplication Option  
Veritas Backup Exec 15: Administrator's Guide  
Appendices:  
- B: Symantec Backup Exec Deduplication Option  
- M: Symantec Backup Exec Advanced Disk-based Backup Option  
- N: Symantec Backup Exec NDMP Option |
| Describe how to protect remote servers using the appropriate Agents and Options.   | Course: Veritas Backup Exec 15: Manage and Administer  
Lesson 1: Remote Agents                                                       |
<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topics:</td>
<td></td>
</tr>
<tr>
<td>• Introduction to Remote Agents</td>
<td></td>
</tr>
<tr>
<td>• Agent for Windows</td>
<td></td>
</tr>
<tr>
<td>• Managing the Agent for Windows</td>
<td></td>
</tr>
<tr>
<td>• Agent for Linux and Agent for Mac</td>
<td></td>
</tr>
<tr>
<td>Veritas Backup Exec 15: Administrator's Guide</td>
<td></td>
</tr>
<tr>
<td>Appendices:</td>
<td></td>
</tr>
<tr>
<td>• A: Symantec Backup Exec Agent for Windows</td>
<td></td>
</tr>
<tr>
<td>• J: Symantec Backup Exec Agent for Lotus Domino</td>
<td></td>
</tr>
<tr>
<td>• K: Symantec Backup Exec Agent for Microsoft Active Directory</td>
<td></td>
</tr>
<tr>
<td>• O: Symantec Backup Exec Agent for Linux</td>
<td></td>
</tr>
<tr>
<td>• P: Symantec Backup Exec Agent for Mac</td>
<td></td>
</tr>
</tbody>
</table>

Describe the general function of Veritas Backup Exec 15 database agents and virtualization agents.

Course: Veritas Backup Exec 15: Manage and Administer
Lesson 2: Agent for Applications and Databases
Topics:
• Agent for Applications and Databases fundamentals
• Installing the Agent for Applications and Databases
Lesson 3: Agent for Microsoft Exchange Server
Lesson 4: Agent for Microsoft SQL Server
Lesson 5: Agent for Microsoft SharePoint Server
Lesson 6: Agent for Microsoft Active Directory
Lesson 7: Virtual Environment Agents
Lesson 8: Deduplication Option

Veritas Backup Exec 15: Administrator's Guide
Appendices:
• C: Symantec Backup Exec Agent for VMware
• D: Symantec Backup Exec Agent for Microsoft Hyper-V
• E: Symantec Backup Exec Agent for Microsoft SQL Server
• F: Symantec Backup Exec Agent for Microsoft Exchange Server
• G: Symantec Backup Exec Agent for Microsoft SharePoint
• K: Symantec Backup Exec Agent for
<table>
<thead>
<tr>
<th>VCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Microsoft Active Directory</td>
</tr>
</tbody>
</table>
| Describe procedures for performing GRT-enabled backups, delayed cataloging and individual item restores. | **Course:** Veritas Backup Exec 15: Manage and Administer  
Lesson 3: Agent for Microsoft Exchange Server  
Topics:  
- Backup Settings  
- GRT Browse Restore  
- GRT Search Restore  
- Restore Considerations: GRT  
Lesson 5: Agent for Microsoft SharePoint Server  
Topics:  
- Backing up SharePoint  
- Restoring SharePoint  
Veritas Backup Exec 15: Administrator’s Guide  
Chapter: Configuration and settings |
| Describe how to configure the components of Veritas Backup Exec 15 Enterprise Server Option (ESO). | **Course:** Veritas Backup Exec 15: Install and Configure  
Lesson 1: Backup Exec Fundamentals  
Topics:  
- Symantec’s Backup Exec solution offerings  
- Backup Exec architecture  
Appendix B: Central Admin Server Option  
Topics:  
- Backup Exec 15 CASO: Overview  
- Installing the CASO  
- Installing MBES  
- Backup jobs: MBES and Server Pools  
- Restoring files using CASO  
- MBES Settings  
- Copy configuration to MBES  
Veritas Backup Exec 15: Administrator’s Guide  
Appendix L: Symantec Backup Exec Central Admin Server Option |

If you have questions about the Veritas Certification Program, send an email to Global.exams@veritas.com