



Course Outline

**Microsoft SQL Server 2012
Administration (70-461,70-462, &
70-463)**



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Videos and How To

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Here's what you get

Features

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1. Course Objective

Prepare for the Microsoft MCSE/MCSA SQL Server 2012 certification exam with the Microsoft SQL Server 2012 Administration (70-461,70-462, & 70-463) course. The course completely covers SQL Server 2012 70-461, 70-462, and 70-463 exam objectives and will help you master the skills required to manage, and troubleshoot network protocols and services; and configure, manage, and troubleshoot security.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

653
EXERCISES

4. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

317
QUIZZES

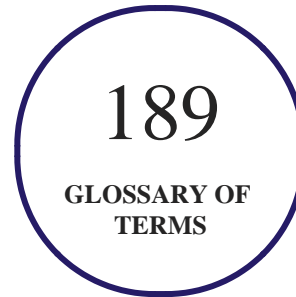
5. Flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.

335
FLASHCARDS

6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 5 years:

- **2014**
 1. Best Postsecondary Learning Solution

- **2015**
 1. Best Education Solution
 2. Best Virtual Learning Solution
 3. Best Student Assessment Solution
 4. Best Postsecondary Learning Solution
 5. Best Career and Workforce Readiness Solution
 6. Best Instructional Solution in Other Curriculum Areas
 7. Best Corporate Learning/Workforce Development Solution

- **2016**
 1. Best Virtual Learning Solution
 2. Best Education Cloud-based Solution

3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Understanding SQL Server's Role

- What Is Information Technology?
- Introduction to Databases
- Database Servers and Applications
- SQL Server's Role
- Summary
- Lesson Essentials

Chapter 2: Installing SQL Server 2012

- Installation Planning
- Installing a Default Instance
- Installing Named Instances
- Installing to a Cluster
- Installing Extra Features
- Upgrading from Previous Versions
- Validating an Installation
- Removing an Installation
- Summary

- Lesson Essentials

Chapter 3: Working with the Administration Tools

- SQL Server Configuration Manager
- SQL Server Management Studio
- SQL Server Data Tools
- SQL Server Profiler
- Books Online
- Windows Server Administration for the DBA
- Summary
- Lesson Essentials

Chapter 4: SQL Server Command-Line Administration

- Introducing the Command Prompt
- General Commands
- Batch Files
- Mastering SQLCMD
- Introducing Windows PowerShell

- Using SQL Server PowerShell Extensions
- Summary
- Lesson Essentials

Chapter 5: Querying SQL Server

- Understanding the SQL Language
- SQL Statement Types
- SQL Syntactical Elements
- Coding Recommendations
- Using SELECT Statements
- Advanced Query Techniques
- Using DDL Statements
- Using DCL Statements
- Modifying Data
- Tuning and Optimizing Queries
- Summary
- Lesson Essentials

Chapter 6: Database Concepts and Terminology

- Relational Database Theory
- Database Design Processes
- Project Management for the DBA

- Summary
- Lesson Essentials

Chapter 7: ERD and Capacity Planning

- Planning a Database
- Understanding Entity Relationship Diagramming
- Building an ERD
- Capacity Planning
- Summary
- Lesson Essentials

Chapter 8: Normalization and Other Design Issues

- Designing for Normalization
- Designing for Performance
- Designing for Availability
- Designing for Security
- Summary
- Lesson Essentials

Chapter 9: Creating SQL Server Databases

- SQL Server Databases
- Database Storage
- Database Options and Properties
- Creating Databases in the GUI
- Creating Databases with T-SQL
- Creating Databases with PowerShell
- Attaching and Detaching Databases
- Database Snapshots
- Summary
- Lesson Essentials

Chapter 10: Creating Tables

- Data Types
- Collations
- Table Creation Process
- Data Partitioning

- Summary
- Lesson Essentials

Chapter 11: Indexes and Views

- Understanding Indexes
- Creating Basic Indexes
- Creating Advanced Indexes
- Managing Indexes
- Understanding Views
- Creating Views
- Summary
- Lesson Essentials

Chapter 12: Triggers and Stored Procedures

- Triggers Defined
- Using Triggers
- Creating Triggers
- Understanding Stored Procedures

- Creating Stored Procedures
- Summary
- Lesson Essentials

Chapter 13: Implementing Advanced Features

- Understanding and Installing Analysis Services
- Understanding Integration Services
- Understanding and Installing Reporting Services
- Implementing Database Mail
- Configuring Full-Text Indexing
- Implementing Transparent Data Encryption
- Data Compression
- Summary
- Lesson Essentials

Chapter 14: Creating Jobs, Operators, and Alerts

- Standardize, Automate, and Update
- Understanding SQL Server Jobs

- Creating T-SQL Jobs
- Creating SSIS Jobs
- Creating Windows Command Jobs
- Creating and Using Operators
- Creating and Using Alerts
- Using WSUS for SQL Server 2012
- Summary
- Lesson Essentials

Chapter 15: Performance Monitoring and Tuning

- Performance Tuning Principles
- Performance and Troubleshooting Tools
- Blocks, Locks, and Deadlocks
- SQL Server Profiler
- Database Engine Tuning Advisor
- Performance Monitoring with System Monitor
- Using the Resource Governor

- Performance Studio
- Advanced Monitoring Tools
- Summary
- Lesson Essentials

Chapter 16: Policy-Based Management

- Policy-Based Management
- Centralized Server Management
- Standardizing with PBM and CMS
- Summary
- Lesson Essentials

Chapter 17: Backup and Restoration

- Backing Up a Database
- Backing Up System Databases
- Restoring a Database
- Backing Up the Environment
- Summary

- Lesson Essentials

Chapter 18: Security Threats and Principles

- Security Defined
- Security Threats
- Security Principles
- Summary
- Lesson Essentials

Chapter 19: Authentication and Encryption

- Understanding Authentication
- SQL Server Authentication Methods
- Logins, Users, and Roles
- Understanding Encryption
- Summary
- Lesson Essentials

Chapter 20: Security Best Practices

- Establishing Baselines
- Implementing Least Privilege
- Auditing SQL Server Activity
- Configuring the Surface Area
- Understanding Common Criteria and C2
- Summary
- Lesson Essentials

Chapter 21: AlwaysOn and High Availability

- Introducing AlwaysOn Technology
- Mirroring and AlwaysOn
- Failover Solutions
- Selecting Hardware for AlwaysOn
- Summary
- Lesson Essentials

Chapter 22: SQL Server Failover Clustering

- Understanding Windows Failover Clustering Service

- Implementing a Windows Cluster
- Installing SQL Server 2012 to a Cluster
- Monitoring and Managing a SQL Server Cluster
- Summary
- Lesson Essentials

Chapter 23: Database Mirroring and Snapshots

- RAID-based Data Redundancy
- Using Database Mirroring
- Understanding Log Shipping
- Implementing Database Snapshots
- Summary
- Lesson Essentials

Chapter 24: Implementing Replication

- SQL Server Replication
- Importing and Exporting Data
- Summary

- Lesson Essentials

Chapter 25: Data Warehousing

- Understanding Data Warehouses
- Implementing Fact Tables
- Implementing Dimensions
- Summary
- Chapter Essentials

Chapter 26: SQL Server Integration Services

- Integration Issues
- Installing SSIS
- Configuring SSIS Security Settings
- Deploying Packages
- SSIS Auditing and Event Handling
- Extracting, Transforming, and Loading Data
- Summary
- Lesson Essentials

Chapter 27: Data Quality Solutions

- Understanding Data Quality Concerns
- Installing Data Quality Services
- Using Master Data Services
- Cleaning Data
- Summary
- Chapter Essentials

Chapter 28: Appendix A

- Certification Objectives Map

Chapter 29: Appendix B

- Certification Objectives Map

Chapter 30: Appendix C

- Certification Objectives Map

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

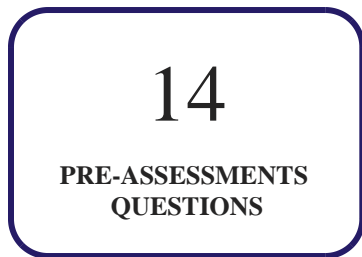
93
VIDEOS

02:30
HOURS

12. Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

Here's what you get



Features

Full Remediation

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Learn, Test and Review Mode

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

13. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

Have Any Query? We Are Happy To Help!

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■ www.ucertify.com