M70-432V3 MCTS Implementing and Maintaining a Microsoft SQL Server 2008 R2 Database

Miles cursusprijs:	**€ 2.750,00**
Miles Cursusduur:	**6 klassikale lesdagen (normaal 10 lesdagen)**
Doorlooptijd:	**5 weken; 1e, 3e en de 5e week 2 lesdagen**
Besparing in geld:	**tot € 1.800,00**
Besparing in tijd:	**4 klassikale lesdagen**

Samenvatting

M70-432V3 is een “Blended” cursus van in totaal 6 dagen klassikale training in combinatie met zelfstudie.
De cursus bestaat uit zes trainingsdagen die verdeeld zijn over vijf weken. De cursus begint met 2 trainingsdagen, dan twee weken zelfstudie, de week erop 2 trainingsdagen, twee weken zelfstudie en vervolgens weer 2 trainingsdagen. In de zelfstudie tijd kunnen de cursisten aan de hand van de studieprogrammering de theoretische elementen bestuderen.
De cursus Miles70-432V3 is een combinatie van de MOC cursus 6232 Implementing a Microsoft SQL Server 2008 R2 Database en de de MOC cursus 6231 Maintaining a Microsoft SQL Server 2008 R2 Database. Officieel zijn dit 10 dagen training.
Naast de geselecteerde onderwerpen uit het officiële Microsoft MOC cursusmateriaal krijgen de cursisten de beschikking over de MSPress trainingkit - MCTS Self-Paced Training Kit [Exam 70-432]: Microsoft SQL Server 2008, Implementation and Maintenance, E-learning: - Implementing and Maintaining a Microsoft SQL 2008 Database - en het Transcender proefexamen. Een professioneel opgezette studieplanner faciliteert de leidraad voor de studie en de voorbereiding op het Microsoft exam 70-432 TS: Microsoft SQL Server 2008 - Implementation and Maintenance.
Verder is aan de cursus een casus toegevoegd.

Short Description

This six-day instructor-led course provides students with product knowledge and skills needed to implement and maintain a Microsoft SQL Server 2008 R2 database. The course focuses on teaching individuals how to use SQL Server 2008 product features and tools related to implementing and maintaining a database.

Inclusief extra studiemateriaal

- MOC workbook
- MSPress trainingkit MCTS Self-Paced Training Kit [Exam 70-432]: Microsoft SQL Server 2008 - Implementation and Maintenance
- E-Learning
- E-Mentoring
- Tips & tricks
- Proefexamen
- Klassikale Casus
- Studieplanner

After completing this course, students will be able to:

- Explain SQL Server 2008 R2 architecture, resources requirements and perform pre-checks of I/O subsystems
- Plan, install and configure SQL Server 2008 R2
- Backup and restore databases
- Import and export wizards and explain how they relate to SSIS
- Use BCP and BULK INSERT to import data
- Manage security
- Assign, configure fixed database roles and create and assign user defined database roles
- Configure and assign permissions
- Implement SQL Server 2008 R2 Audits

- Manage SQL Server 2008 R2 Agent and Jobs
- Configure database mails, alerts and notifications
- Maintain databases
- Configure SQL Profiler Traces and Use the Database Tuning Advisor
- Monitor data by using Dynamic Management Views
- Execute multi-server queries and configure a central management server
- Deploy a data-tier-application
- Troubleshoot common issues
- Understand the product, its components, and basic configuration.
- Work with the data types supported by SQL Server.
- Design and implement tables and work with schemas.
- Design and implement views and partitioned views.
- Describe the concept of an index and determine the appropriate data type for indexes and composite index structures.
- Identify the appropriate table structures and implement clustered indexes and heaps.
- Describe and capture execution plans.
- Design and implement non-clustered indexes, covering indexes, and included columns.
- Design and implement stored procedures.
- Implement table types, table valued parameters, and the MERGE statement.
- Describe transactions, transaction isolation levels, and application design patterns for highly-concurrent applications.
- Design and implement T-SQL error handling and structured exception handling.
- Design and implement scalar and table-valued functions.
- Design and implement constraints.
- Design and implement triggers.
- Describe and implement target use cases of SQL CLR integration.
- Describe and implement XML data and schema in SQL Server.
- Use FOR XML and XPath queries.
- Describe and use spatial data types in SQL Server.
- Implement and query full-text indexes.

Doelgroep

This course is intended for IT Professionals who implement, administer and maintain SQL Server databases

Voorkennis

Before attending this course, students must have:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- SQL Server skills - ability to write Transact-SQL queries or completed Course 2778: Writing Queries Using Microsoft SQL Server 2008 Transact-SQL.
- Working knowledge of Relational databases.
- Some experience with Database design skills.

Onderwerpen

Introduction to SQL Server 2008 R2 and its Toolset
- Introduction to SQL Server Platform
- Working with SQL Server Tools
- Configuring SQL Server Services

Preparing Systems for SQL Server 2008 R2
- Overview of SQL Server 2008 R2 Architecture
- Planning Server Resource Requirements
- Pre-installation Testing for SQL Server 2008 R2

Installing and Configuring SQL Server 2008 R2
- Preparing to Install SQL Server 2008 R2
- Installing SQL Server 2008 R2
- Upgrading and Automating Installation

Working with Databases
- Overview of SQL Server Databases
- Working with Files and Filegroups
- Moving Database Files

Understanding SQL Server 2008 R2 Recovery Models
- Backup Strategies
- Understanding SQL Server Transaction Logging
- Planning a SQL Server Backup Strategy

Backup of SQL Server 2008 R2 Databases
- Backing up Databases and Transaction Logs
- Managing Database Backups
- Working with Backup Options

Restoring SQL Server 2008 R2 Databases
- Understanding the Restore Process
- Restoring Databases
- Working with Point-in-time Recovery
- Restoring System Databases and Individual Files

Importing and Exporting Data
- Transferring Data To/From SQL Server 2008 R2
- Importing & Exporting Table Data
- Inserting Data in Bulk

Authenticating and Authorizing Users
- Authenticating Connections to SQL Server
- Authorizing Logins to Access Databases
- Authorization Across Servers

Assigning Server and Database Roles
- Working with Server Roles
- Working with Fixed Database Roles
- Creating User-defined Database Roles

Authorizing Users to Access Resources
- Authorizing User Access to Objects
- Authorizing Users to Execute Code
- Configuring Permissions at the Schema Level

Auditing SQL Server Environments
- Options for Auditing Data Access in SQL Server
- Implementing SQL Server Audit
- Managing SQL Server Audit

Automating SQL Server 2008 R2 Management
- Automating SQL Server Management
- Working with SQL Server Agent
- Managing SQL Server Agent Jobs

Configuring Security for SQL Server Agent
- Understanding SQL Server Agent Security
- Configuring Credentials
- Configuring Proxy Accounts

Monitoring SQL Server 2008 R2 with Alerts and Notifications
- Configuration of Database Mail
- Monitoring SQL Server Errors
- Configuring Operators, Alerts and Notifications

Performing Ongoing Database Maintenance
- Ensuring Database Integrity
- Maintaining Indexes
- Automating Routine Database Maintenance

Tracing Access to SQL Server 2008 R2
- Capturing Activity using SQL Server Profiler
- Improving Performance with the Database Engine Tuning Advisor
- Working with Tracing Options

Monitoring SQL Server 2008 R2
This module introduces DMVs and the configuration of data collection.
- Monitoring Activity
- Capturing and Managing Performance Data
- Analyzing Collected Performance Data

Managing Multiple Servers
- Working with Multiple Servers
- Virtualizing SQL Server
- Deploying and Upgrading Data-Tier Applications

Troubleshooting Common SQL Server 2008 R2 Administrative Issues

- SQL Server Troubleshooting Methodology
- Resolving Service-related Issues
- Resolving Concurrency Issues
- Resolving Login and Connectivity Issues

Introduction to SQL Server and its Toolset

- Introduction to SQL Server Platform
- Working with SQL Server Tools
- Configuring SQL Server Services

Working with Data Types

- Using Data Types
- Working with Character Data
- Converting Data Types
- Working with Specialized Data Types

Designing and Implementing Tables

- Designing Tables
- Working with Schemas
- Creating and Altering Tables

Designing and Implementing Views

- Introduction to Views
- Creating and Managing Views
- Performance Considerations for Views

Planning for SQL Server Indexing

- Core Indexing Concepts
- Data Types and Indexes
- Single Column and Composite Indexes

Implementing Table Structures in SQL Server

- SQL Server Table Structures
- Working with Clustered Indexes
- Designing Effective Clustered Indexes

Reading SQL Server Execution Plans

- Execution Plan Core Concepts
- Common Execution Plan Elements
- Working with Execution Plans

Improving Performance through Nonclustered Indexes

- Designing Effective Nonclustered Indexes
- Implementing Nonclustered Indexes
- Using the Database Engine Tuning Advisor

Designing and Implementing Stored Procedures

- Introduction to Stored Procedures
- Working With Stored Procedures
- Implementing Parameterized Stored Procedures
- Controlling Execution Context

Merging Data and Passing Tables

- Using the MERGE Statement
- Implementing Table Types
- Using Table Types as Parameters

Creating Highly Concurrent SQL Server Applications

- Introduction to Transactions
- Introduction to Locks
- Management of Locking
- Transaction Isolation Levels

Handling Errors in T-SQL Code

- Designing T-SQL Error Handling
- Implementing T-SQL Error Handling
- Implementing Structured Exception Handling

Designing and Implementing User-Defined Functions

- Designing and Implementing Scalar Functions
- Designing and Implementing Table-valued Functions
- Implementation Considerations for Functions
- Alternatives To Functions

Ensuring Data Integrity through Constraints

- Enforcing Data Integrity
- Implementing Domain Integrity
- Implementing Entity and Referential Integrity

Responding to Data Manipulation via Triggers

- Designing DML Triggers
- Implementing DML Triggers
- Advanced Trigger Concepts

Implementing Managed Code in SQL Server

- Introduction to SQL CLR Integration
- Importing and Configuring Assemblies
- Implementing SQL CLR Integration

Storing XML Data in SQL Server

- Introduction to XML and XML Schemas
- Storing XML Data and Schemas in SQL Server
- Implementing the XML Data Type

Querying XML Data in SQL Server

- Using the T-SQL FOR XML Statement
- Getting Started with XQuery
- Shredding XML

Working with SQL Server Spatial Data

- Introduction to Spatial Data
- Working with SQL Server Spatial Data Types
- Using Spatial Data in Applications

Working with Full-Text Indexes and Queries

- Introduction to Full-Text Indexing
- Implementing Full-Text Indexes in SQL Server
- Working with Full-Text Queries

Examen:
Microsoft exam 70-432 TS: Microsoft SQL Server 2008 - Implementation and Maintenance

Voor verdere informatie over de mogelijkheden van @The Academy kunt u contact opnemen met één van onze opleidingsadviseurs. Wij zijn te bereiken op 040-292 47 47.

INSCHRIJFFORMULIER

Bedrijfsnaam	
Adres	
Postcode en plaats	
Telefoon	
Contactpersoon	
Emailadres contactpersoon	
Factuur adres	
Contactpersoon facturatie	
Inkoopnummer	

	Prijs	Startdatum
M70-432V3 – MCTS: Implementing and Maintaining a Microsoft SQL Server 2008 R2 Database	**€ 2.750,=**	____ - ____ - _____

Kruis aan indien gewenst	Omschrijving	Aantal	Prijs per stuk	Totaal
	Microsoft Exam Vouchers	1	€ 175,=	€ 175,=

Naam Cursist	
Emailadres Cursist	

Ondergetekende is tekeningsbevoegd en verklaart zich akkoord met de cursusvoorwaarden.

Naam	Handtekening	Datum
		____ - ____ - _____

Betalingsvoorwaarden:
Facturatie: 100% bij opdracht.
Betalingstermijn: 10 werkdagen voor aanvang opleidingstraject
Alle genoemde bedragen zijn exclusief BTW.

De opdracht wordt aan @The Academy B.V. verstrekt door middel van ondertekening van dit inschrijfformulier. U kunt uw ondertekende opdrachtbevestiging per fax retourneren aan @The Academy op faxnummer : **040 - 292 47 48**.

Wij danken u voor het in ons gestelde vertrouwen.