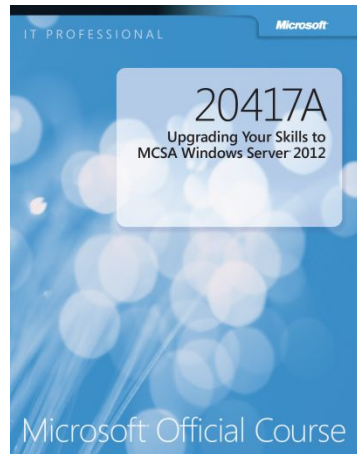


# Your Course Materials

Designed to optimize your classroom learning experience.  
And support you back on the job.



## Microsoft Official Course Handbook

- Organized by Modules
- Includes Labs + Lab Answer Keys
- Module Reviews + Takeaways—great for on-the-job reference

- **Querying Data with Transact-SQL**

# Course Outline

- **Module 1**, “Introduction to Microsoft SQL Server 2016”
- **Module 2**, “Introduction to T-SQL Querying”
- **Module 3**, “Writing SELECT Queries”
- **Module 4**, “Querying Multiple Tables”
- **Module 5**, “Sorting and Filtering Data”
- **Module 6**, “Working with SQL Server 2016 Data Types”
- **Module 7**, “Using DML to Modify Data”
- **Module 8**, “Using Built-In Functions”

# Course Outline

- **Module 9**, “Grouping and Aggregating Data”
- **Module 10**, “Using Subqueries”
- **Module 11**, “Using Table Expressions”
- **Module 12**, “Using Set Operators”
- **Module 13**, “Using Windows Ranking, Offset, and Aggregate Functions”
- **Module 14**, “Pivoting and Grouping Sets”
- **Module 15**, “Executing Stored Procedures”
- **Module 16**, “Programming with T-SQL”
- **Module 17**, “Implementing Error Handling”
- **Module 18**, “Implementing Transactions”

# Microsoft Certification Program

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# Preparing for the Labs

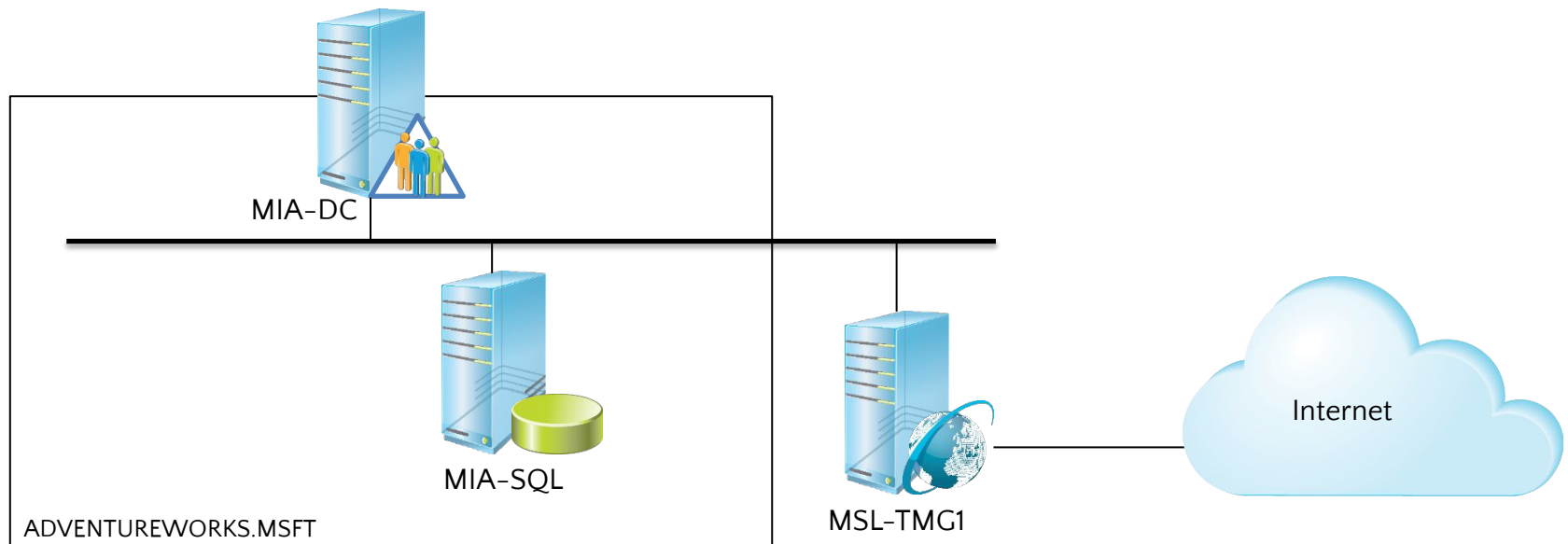
Your lab activities will be centered around Adventure Works Cycles, a fictitious manufacturer and seller of cycles and related products.

To complete the labs, you will work in a virtual machine (VM) environment.



# Virtual Machine Environment

Virtual Machine Name:	Use as:
20761C-MIA-DC	Domain controller
20761C-MIA-SQL	Database and BI server
MSL-TMG1	Internet gateway



# Demonstration: Using Hyper-V Manager

In this demonstration, you will learn how to:

- Open Hyper-V Manager
- Navigate the various sections/panes within Hyper-V Manager
  - Virtual Machines, Snapshots, and Actions: Server-specific and VM-specific
- Identify the VMs used in the labs for this course
- Take a Snapshot and Apply a Snapshot
- Connect to a VM
- Start and log on to a VM
- Switch between full screen and window modes
- Revert to the previous Snapshot
- Shut down a VM
  - When to use Shut Down or Turn off
- Close Hyper-V Manager