

uCertify

Course Outline

Azure Data Fundamentals



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1. Course Objective

Get hands-on experience in Azure data fundamentals with Microsoft Azure data fundamentals certification course and lab. The course is designed for Candidates to have subject matter expertise in identifying and describing core data concepts such as relational, non-relational, big data, and analytics and exploring how this technology is implemented with Microsoft Azure. They will explore the roles, tasks, and responsibilities in the world of data.

2. 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.



3. 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.

4. 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.

5. 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 assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

6. 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 7 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

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

7. 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: Introduction

- Organization of this course
- Preparing for the exam
- Microsoft certifications
- Quick access to online references

Chapter 2: Describe core data concepts

- Skill 1.1: Describe types of core data workloads
- Skill 1.2: Describe data analytics core concepts
- Thought experiment
- Lesson summary

Chapter 3: Describe how to work with relational data on Azure

- Skill 2.1: Describe relational data workloads
- Skill 2.2: Describe relational Azure data services
- Skill 2.3: Identify basic management tasks for relational data
- Skill 2.4: Describe query techniques for data using SQL language
- Thought experiment
- Lesson summary

Chapter 4: Describe how to work with non-relational data on Azure

- Skill 3.1: Describe non-relational data workloads
- Skill 3.2: Describe non-relational data offerings on Azure
- Skill 3.3: Identify basic management tasks for non-relational data
- Thought experiment
- Lesson summary

Chapter 5: Describe an analytics workload on Azure

- Skill 4.1: Describe analytics workloads
- Skill 4.2: Describe the components of a modern data warehouse

- Skill 4.3: Describe data ingestion and processing on Azure
- Skill 4.4: Describe data visualization in Microsoft Power BI
- Thought experiment
- Lesson summary

8. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Describe how to work with relational data on Azure

- Creating an Azure SQL Database
- Creating a SQL Server VM in the Azure Portal
- Creating an Azure Database for PostgreSQL Servers
- Deploying an ARM Template
- Using an ARM Template in the Portal

Describe how to work with non-relational data on Azure

- Creating a Cosmos DB Account and Getting the ARM Template
- Creating a Table in Table Storage
- Creating a Blob Container
- Creating a Storage Account, Container, and Storage Blob Directory
- Creating a Cosmos DB Account from the Azure Portal Using the ARM Template

Describe an analytics workload on Azure

- Provisioning an Azure Databricks Workspace and Creating a Cluster
- Creating an HDInsight Cluster

Here's what you get

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LIVE LABS

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VIDEO TUTORIALS

49

MINUTES

You can't stay away! Get



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