DP-201: "Designing an Azure Data Solution" Training Curriculum

STRUCTURE

DP-201: Designing an Azure Data Solution Training Curriculum

"Become a Certified Azure Solution Designer by joining our comprehensive DP-201 Training Program"

About Croma Campus:

Croma Campus Training & Development Private Limited is an education platform since 2010 providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty and industry.

- Hands-On Live Projects
- Simulation Test Papers
- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
- Live Instructor Classroom / Online Training
- 100% Placement Assistance

Course Objectives:

- Prepare yourself for the certification exam and clear your certification exam in the first attempt
- Add an attractive credential in your resume that is really appreciated by Companies.
- Improve your overall cloud management skills and explore more job prospects with better salary packages.
- Boost your social media profiles especially LinkedIn by adding this certification and become one of the top persons to be chosen by industries.

DP-201 Certification Training Description:

Candidates for this exam are Microsoft Azure data engineers who collaborate with business stakeholders to identify and meet the data requirements to design data solutions that use Azure data services.

Azure data engineers are responsible for data-related design tasks that include designing Azure data storage solutions that use relational and non-relational data stores, batch and real-time data processing solutions, and data security and compliance solutions.

Candidates for this exam must design data solutions that use the following Azure services: Azure Cosmos DB, Azure Synapse Analytics, Azure Data Lake Storage, Azure Data Factory, Azure Stream Analytics, Azure Databricks, and Azure Blob storage.

Necessary Details about Certification You must Know

- Certification Name – DP-201: Designing an Azure Data Solution
- Exam Duration: 180 minutes
- Number of Questions: 40-60
- Passing score: 700 (Out of 1000)
- Exam Cost: USD 165.00
- Validity: 2 years

Certification Exam Structure:

- Design Azure data storage solutions (40-45%)
- Design data processing solutions (25-30%)
- Design for data security and compliance (25-30%)

Croma Campus Training Program Deliverables:

- **Session Recordings** - Original Class Room Voice & Video Recording
- **Training Material** - Soft Copy Handbooks
- **Assignments** | 25+ Hands-on Exercises
- **Test Papers** - We provide **Practice Test** as part of our course to help you prepare for the actual certification exam.
- **Live Case Studies**
- **Live Projects** - Hands-on exercises and Project work. You will work on real time industry-oriented projects and assignments for each module to practice.
- **Key focus on Hands-on exercises and Project work**. You will work on real time industry-oriented projects.
- Faculty with more than **10+ Years of Experience** in the Industry.
- **Technical Resume Designing & Job Assistance:** With more than 100+ Clients across the Globe and we help learners to get a good job in their respective field. We also help learners with resume preparation.
- **Interview Q&A**
- **About Croma Campus Training Certificate:** Croma Campus will provide you with an industry-recognized (Certified by **ISO 9001:2015** & **E-Cell IIT Jodhpur**) course completion certificate which has lifelong validity.
- **How I Unlock my Croma Campus Certificate:** Attend Complete Batch & Submit at least One Completed Project.

Course Content:

Module 1: Design Azure Data Storage Solutions (40-45%)

Recommend an Azure data storage solution based on requirements

- Choose the correct data storage solution to meet technical & business requirements
- Choose the partition distribution type

Design non-relational cloud data stores

- Design data distribution and partitions
- Design for scale (including multi-region, latency, and throughput)
- Design a solution that uses cosmos DB, data lake storage gen2, or blob storage
- Select the appropriate cosmos DB API
- Design a disaster recovery strategy
- Design for high availability

Design relational cloud data stores

- Design data distribution and partitions
- Design for scale (including latency, and throughput)

- Design a solution that uses azure synapse analytics
- Design a disaster recovery strategy
- Design for high availability

Module 2: Design Data Processing Solutions (25-30%)

Design batch processing solutions

- Design batch processing solutions that use Data Factory and Azure Databricks
- Identify the optimal data ingestion method for a batch processing solution
- Identify where processing should take place, such as at the source, at the destination, or in transit

Design real-time processing solutions

- Design for real-time processing by using Stream Analytics and Azure Databricks
- Design and provision compute resources

Module 3: Design for Data Security and Compliance (25-30%)

Design security for source data access

- Plan for secure endpoints (private/public)
- Choose the appropriate authentication mechanism, such as access keys, shared access signatures (SAS), and azure active directory (azure ad)

Design security for data policies and standards

- Design data encryption for data at rest and in transit
- Design for data auditing and data masking
- Design for data privacy and data classification
- Design a data retention policy
- Plan an archiving strategy
- Plan to purge data based on business requirements

Module 4: Placement Guide

- Tips to clear an Interview
- Common Interview questions and answers
- DP-201 Interview Questions and Answers
- Resume Building Guide
- Attempt for DP-201 Global Certification Exam
- Earn Credentials and Start applying for Jobs