

**START YOUR
DP 700 CAREER
TODAY!!**

CREDO SYSTEMZ

**Fabric Data Engineer
Program**

Capstone Projects :

Real Time Business Scenario using
DP 700



Sales Performance Dashboard

Build a dashboard to show total sales, profit margin, top-selling products, and regional performance. Include year-over-year growth and forecasting.



Customer Retention and Churn Analysis

Import customer data and analyze metrics such as churn rate, retention rate, and average customer lifespan. Segment customers by behavior and demographics.



Financial Budget vs Actual Analysis

Create a report to track budget utilization by department or project. Include variance analysis and dynamic drill-downs.



HR Analytics Dashboard

Visualize employee demographics, attrition, recruitment funnel, and performance ratings. Analyze trends in headcount and diversity.



Website Traffic & Marketing Insights

Connect to web analytics data (e.g., Google Analytics), visualize traffic sources, bounce rate, conversion funnels, and campaign ROI.



Inventory Management Dashboard

Develop a dashboard to monitor stock levels, reorder alerts, aging inventory, and supplier lead times. Integrate with sales data for demand forecasting.



FABRIC DATA ENGINEER

COURSE SYLLABUS

Duration : 40 hrs

● **Section 1 : Introduction to Microsoft Fabric**

- Overview of Microsoft Fabric
- Components: Data Factory, Synapse, Power BI, Data Activator
- Understanding the Unified Data Platform
- Role of a Data Engineer in Microsoft Fabric

● **Section 2 : Ingesting and Transforming Data with Dataflow Gen2**

- Ingesting data using Dataflow Gen2
- Transform data using Power Query
- Data pipeline concepts and activities
- Managing and monitoring pipelines

● **Section 3 : Managing Data in One Lake and Lake Houses**

- Introduction to One Lake
- Creating and managing Lake houses
- Working with files and tables
- Partitioning, indexing, and optimization

● **Section 4 : Data Engineering with Apache Spark in Fabric**

- Introduction to Spark in Fabric
- Writing PySpark notebooks
- Data wrangling and processing using Spark
- Managing compute and performance

● **Section 5 : Building Data Pipelines with Data Factory**

- Create and manage pipelines in Fabric
- Mapping and Wrangling Data Flows

- Pipeline triggers and dependencies
- Monitoring and troubleshooting

● **Section 6 : Creating and Managing Data Warehouses**

- Data Warehouse vs Lake house
- Designing a Fabric Data Warehouse
- Ingesting data into warehouses
- Querying with T-SQL in Fabric

● **Section 7 : Designing End-to-End Data Solutions**

- Integrating Lake house, Data Warehouse & Power BI
- Orchestrating pipelines and activities
- Real-time analytics and alerting with Data Activator
- Best practices for performance and scalability

● **Section 8 : Security, Governance & Monitoring**

- Data access and workspace roles
- Row-level and column-level security
- Monitoring Fabric workloads and diagnostics
- Integration with Microsoft Purview

● **Section 9 : Data Governance & Compliance in Fabric**

- Implement data classification and labeling
- Secure sensitive data with RLS & CLS
- Integrate with Microsoft Purview for governance
- Track lineage and auditing within workspaces

● **Section 10 :Automation with Fabric Pipelines**

- Automate end-to-end data workflows
- Schedule and trigger pipelines for business
- Use Fabric API & Logic Apps for integration
- Error handling and retries in pipeline execution

SKILLS AND TOOLS

Tools Covered

Microsoft Fabric



OneLake



Warehouse



Pipelines



Dataflows Gen2



Spark Notebooks



Power BI



SQL



Git integration



Azure Purview



Skills Covered

Data Engineering
Fundamentals



Microsoft Fabric
Architectures



Data
Integration



Data
Transformation



Data
Modeling



Security &
Compliance



Performance
Optimization



Collaboration



Earn your DP 700 Course Completion Certificate

Credo Systemz's certificate is highly recognized by
30K Global companies around the world.



WHAT OUR **TRAINEE** SAYS?



Jhanvi

4.7 ★★★★★

The trainer explained cloud concepts clearly with real-life examples, making it easy to understand for beginners. Practice sessions and doubt clearing were really helpful for building a strong foundation.



Nirosha

4.2 ★★★★★

The course was well-structured with hands-on labs for each topic, which improved my practical skills. The trainer's guidance on managing Azure resources and services was excellent.



Karthik M

5.0 ★★★★★

The sessions focused on design patterns, architecture scenarios, and case studies that matched the exam syllabus. The instructor made complex concepts simple with diagrams and live use cases.



Srinivasan

4.9 ★★★★★

The training covered pipelines, CI/CD, and DevOps practices in a very practical way. Tools like Azure DevOps and GitHub Actions were taught with real-time project examples.



Priya

4.0 ★★★★★

Security topics like IAM, Defender for Cloud, and Key Vault were explained with clarity. Lab exercises boosted my confidence to handle security tasks in a real environment.



Renuka Devi

4.5 ★★★★★


Networking concepts like VNets, VPNs, and routing were made easy with step-by-step labs. The trainer's deep knowledge and support throughout the course were very helpful.



CHENNAI


VELACHERY

New # 30, Old # 16A, Third Main Road, Rajalakshmi Nagar, Velachery, (Opp. to Murugan Kalyana Mandapam), Chennai – 600 042.

 +91 98844 12301

OMR

Plot No.8, Vinayaga Avenue, Rajiv Gandhi Salai, (OMR), Okkiampettai, (Behind Okkiyampet Bus Stop) Chennai – 600 097.

 +91 96001 12302

OVERSEAS

USA

Houchin Drive, Franklin, TN -37064. Tennessee

UAE

Sima Electronic Building, LLH Opposite, Electra Street – Abu Dhabi