

Design and manage analytics solutions using Power BI

PL-300T00



Course Name	Design and manage analytics solutions using Power BI
Course Code	PL_300T00
Course Duration	4 Days
Course Structure	Instructor-Led
Course Overview	This course covers the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will show how to access and process data from a range of data sources including both relational and non-relational sources. Finally, this course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution.
Audience Profile	The audience for this course is data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted at those individuals who develop reports that visualize data from the data platform technologies that exist both in the cloud and on-premises.
Course Prerequisites	You should be familiar with the Power BI Desktop application. You should also have a basic understanding of data analysis concepts and terminology, such as tables, relationships, and calculations.
Course Outcome	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> • Discover data analysis • Get started building with Power BI • Get started with Copilot in Power BI • Clean, transform, and load data in Power BI • Choose a Power BI model framework • Create dynamic reports with parameters • Manage workspaces in Power BI service • Create dashboards in Power BI

Assessment/Evaluation	<p>This course will prepare delegates to take the PL-300T00: Design and manage analytics solutions using Power BI Exam.</p> <p>Successfully passing this exam will result in the attainment of the Design and manage analytics solutions using Power BI Certification and Certificate of Attendance issued by IT-IQ Botswana</p>
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Course Details	
Topic	<p>TOPIC 1: Get started with Microsoft data analytics Explore the role of a data analyst and how Power BI tools transform data into impactful reports and dashboards that support trusted, data-driven decisions across the business.</p> <p>Learning objectives By the end of this module, you should be able to:</p> <ul style="list-style-type: none"> • Understand data analysis • Use Power BI • Explore end-to-end analytics with Microsoft Fabric • Use Copilot in Power BI to prepare and model data • Create reports with Copilot in Power BI • Get your data ready for AI usage in Power BI <p>TOPIC 2: Prepare data for analysis with Power BI You'll learn how to use Power Query to extract data from different data sources, choose a storage mode, and connectivity type. You'll also learn to profile, clean, and load data into Power BI before you model your data.</p> <p>Learning objectives By the end of this module, you should be able to:</p> <ul style="list-style-type: none"> • Get data from files • Create dynamic reports with parameters

- Fix performance issues
- Resolve data import errors

TOPIC 3: Model data with Power BI

Data modeling configures and shapes your prepared data to design a semantic model with the necessary relationships and calculations using Data Analysis Expressions (DAX). This process ensures accurate analysis and sets you up to create clear, impactful Power BI reports.

Learning objectives

By the end of this module, you should be able to:

- Configure a semantic model
- Write DAX formulas for semantic models
- Create DAX calculations in semantic models
- Modify DAX filter context in semantic models
- Use DAX time intelligence functions in semantic models
- Create visual calculations in Power BI Desktop
- Optimize a model for performance in Power BI

TOPIC 4: Design effective reports in Power BI

Use data visualization and storytelling techniques to create insightful, dynamic Power BI reports that engage users, highlight key findings, and help inform decisions based on data.

Learning objectives

By the end of this module, you should be able to:

- Scope report design requirements
- Design Power BI reports
- Enhance Power BI report designs for the user experience
- Perform analytics in Power BI

	<p>TOPIC 5: Manage and secure Power BI</p> <p>Ensure content is accessible and distributed effectively in Power BI to foster collaboration and informed decision-making. Protect sensitive information with robust security, building trust across your organization.</p> <p>Learning objectives</p> <p>By the end of this module, you should be able to:</p> <ul style="list-style-type: none">• Manage workspaces in Power BI service• Manage semantic models in Power BI• Choose a content distribution method• Create dashboards in Power BI• Secure data access in Power BI
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