

**Power BI for Administrators**

**Course Number:** PBI-112  
**Duration:** 2 days

**Overview**

This Power BI for Administrators training course teaches attendees how to use the administrative features of [Pro and Premium Power BI](https://learn.microsoft.com/en-us/power-bi/fundamentals/service-features-license-type). Participants learn how to manage workspaces, create reusable artifacts, share reports, implement security, use CLI tools like PowerShell, and more.

**Prerequisites**

All students must have some experience with Power BI.

**Materials**

All Power BI Admin training students receive comprehensive courseware.

**Software Needed on Each Student PC**

* A recent version of Windows (Windows 10 or later) with at least 8 GB of RAM
* Microsoft Office installed (especially Excel)
* Power BI Desktop installed
* PowerShell installed with permissions to install different modules

**Objectives**

* Manage workspaces
* Create reusable artifacts with datasets, dataflows, and Datamarts
* Secure Power BI artifacts
* Implement performance tuning with performance analyzer, aggregations, hybrid, and dual store
* Connect to on-premises environment using Power BI Data Gateway
* Create Deployment Pipeline to implement dev, test, and prod environments
* Share reports and dashboards by using Power BI apps and embedding them in SharePoint/Web portals
* Administer Power BI using PowerShell and Power BI CLI tools

**Outline**

* Managing Workspaces
  + Creating workspaces
  + Understanding the differences between Pro and Premium
  + Understanding the differences between Power BI Desktop and Power BI Online report creation
  + View usage metrics
  + View lineage
* Creating Reusable Artifacts using Datasets, Dataflows, and Datamarts
  + Understanding Datasets
  + Understanding Dataflows
  + Understanding Datamarts
  + Deciding when to use datasets, dataflows, and datamarts
  + Configuring Endorsement and Sensitivity
* Security
  + Configuring permissions in Workspace
  + Working with Row-level Security (RLS)
  + Working with Object-level Security (OLS)
* Performance Tuning
  + Using Performance Analyzer
  + Using Storage Modes: DirectQuery, Import, and Composite/Hybrid modes
  + Using Aggregations
* Integrating with On-Prem Data
  + Configuring Power BI Data Gateway
  + Connecting to on-prem SQL Server and File Share
* Deployment Pipeline
  + Understanding Deployment Pipeline
  + Managing multiple environments, e.g., Dev, Test, and Prod
  + Implementing Power BI Lifecycle using Deployment Pipelines
  + Configuring security in environments
* Sharing Power BI Reports
  + Apps in Power BI
  + Configuring the navigation structure/sitemap
  + Publishing to Web
  + Embed and link in Portals (SharePoint)
  + Configuring security in Apps
* Power BI Administration Using the CLI Tools
  + Using PowerShell to administer Power BI
  + Using Power BI CLI to interact with Power BI Service
  + Using PowerShell and Power BI CLI to implement commonly used scenarios
  + List all workspaces and artifacts
  + List permissions for all users
  + List My Workspaces, artifacts in each My Workspace, and delete artifacts
  + List AD Group details for users
* Conclusion