Course syllabus

Introduction

Welcome to the final course in Power BI. You've worked hard to get here and should be proud of everything you've achieved!

This course focuses on deploying and maintaining assets in Power BI. Working with assets is an important part of Power BI. It involves creating, implementing, and managing a workspace, populating it with required datasets, and ensuring that your data is protected through security protocols.

By the end of this course, you'll have proven your ability to:

- Deploy Power BI assets.
- Monitor and maintain workspaces.
- And audit, secure, and monitor assets.

Let's take a few moments to review some of the new skills you'll have gained after completing this course.

Week 1

In the first week of this course, you learn about the role of Power BI in Enterprise. You'll gain a larger view of how businesses use Power BI by exploring the different stages of the data analysis process. You'll also learn how deploying and maintaining assets is important in data-driven businesses.

This week's final lesson focuses on exploring SQL databases and their importance as data sources in today's enterprise world. The lesson will revolve around using SQL databases and how they can be leveraged to create reports to help you maintain your workspace and its assets.

Week 2

The second week focuses on deploying assets and working with deployment pipelines.

The opening lesson is an introduction to creating, implementing, and managing personal and shared Power BI workspaces.

In the second lesson, you'll learn how to monitor your workspaces by creating reports that can be analyzed through metrics. You'll also learn how to work with different types of metrics and manage credentials for metric reports.

The third lesson focuses on working with datasets and gateways. The lesson presents a conceptual overview of datasets and gateways, explaining their purpose and relation to dataflows and reports. The lesson begins by providing guidance on techniques for creating,

configuring, and managing datasets. It then allows you to create and configure a dataset in an exercise. The final segment of this lesson presents an overview of gateways, including the different types available.

This week's fourth and final lesson revolves around maintaining workspaces and datasets. It begins with an overview of the development lifecycle before exploring methods for configuring a deployment pipeline. This includes techniques for diagnosing issues with the pipeline, improving its performance, and carrying out troubleshooting.

Week 3

The third week of this course is on security and monitoring. The lessons provide guidance on auditing, securing, and monitoring Power BI assets.

You'll start by learning how to share sensitive information in Power BI safely. This includes an overview of methods for sharing information alongside techniques for labeling and protecting sensitive data. The lesson also presents an opportunity to put what you have learned into practice by applying sensitive labels to data.

The second lesson focuses on managing and configuring dataset permissions. You'll learn about the importance of managing dataset permissions, the different types of permissions available in Power BI, and discover how to add and manage permissions as required.

The third lesson explores the concept of row-level security. This involves configuring different types of security for different roles within the team. In particular, the lesson provides an overview of differentiating between and configuring static and dynamic row-level security.

The fourth and final lesson introduces subscriptions and alerts. In this lesson, you'll learn the importance of subscribing to and configuring alerts to ensure you stay informed about actions occurring within your workspaces and reports. During this lesson, you'll also undertake an exercise in which you'll configure an alert on a dashboard.

Week 4

In the fourth week of this course, you will work on a project that provides guided hands-on training on deploying Power BI dashboards and reports to users in your organization. You will learn how to create workspaces, manage access, upload reports, create dashboards, add quick insights, create apps, and implement row-level security.

After completing this guided project, you'll be able to:

- Create and manage workspaces in the Power BI Service.
- Upload reports to the Power BI Service.
- Create dashboards in the Power BI Service.
- Add quick insights to dashboards in the Power BI Service.
- Create apps in the Power BI Service.
- Implement row-level security in the Power BI Service.

Week 5

The final week of this course consists of a Capstone project in which you'll be assessed on your understanding of and competency in the key skills covered in all courses within this specialization. The Capstone project is comprised of a series of exercises in which you must complete the following tasks:

- Prepare Sales Excel data,
- Configure data sources,
- Design and develop a data model,
- Configure aggregations using DAX,
- Create sales and profits reports,
- And configure alerts for your reports.

The Capstone is followed by a quiz that tests your knowledge of the concepts you encountered in this specialization. You'll then be offered an opportunity to reflect on what you've learned and discover what steps you can take next to continue your career as a data analyst.

 Finally, with your assessments completed, you'll have the opportunity to reflect on the course content and explore the path ahead in your data analysis learning journey.

About the Microsoft Power BI Analyst Professional Certificate

This course is part of a program that will help you build the foundational knowledge and skills you need to succeed as a Microsoft Power BI analyst. Upon completing all the courses in this program, you'll receive a Coursera certificate that serves as proof of your job readiness and that you can share with your professional network. Through videos, assessments, and hands-on activities in the program, you'll engage with the critical concepts of using Power BI to transform data into meaningful insights. This is a great way to prepare for the Microsoft PL-300 exam. By completing the PL-300 exam, you'll earn the Microsoft Certified Power BI Data Analyst Associate qualification.

Prerequisites

Whether you're new to data analytics or hoping to move into the data analytics field, this learning journey may be just what you need to achieve your goals. Previous experience in data analysis or IT-related areas is unnecessary to pursue this certification. All you need is familiarity with using computers. It'll also help if you enjoy questioning information and using the answers to inform others or plan actions!

You must install Power BI Desktop and Power BI service, both available for free online. This course will guide you through setting up your Power BI online account and environment in preparation for the hands-on exercises. Familiarity with Microsoft apps is not a requirement but would be beneficial.

Power BI Desktop User Interface

In this course, you'll use Microsoft Power BI Desktop. Power BI Desktop is updated and released monthly, incorporating customer feedback and new features. You might experience changes in the Power BI Desktop User Interface (UI) that have taken place after the development of this training content. As a result, the screenshots in the videos, readings, or exercises might not align exactly with how you experience the UI. However, please note that these changes do not impact the functionalities of the UI. Hence, you can still perform all the steps in that video, reading, or exercise.

Conclusion

This course will take you closer to the Microsoft Power BI Professional Certificate. You can share your certificate with your professional network when you complete this program. This program helps you become job-ready and prepares you for the Microsoft Certified Exam PL-300: Power BI Analyst. This globally recognized certification is industry-endorsed evidence of your technical skills and knowledge. To learn more about the exam, review the [Microsoft PL-300 study guide](#)

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You are now ready to embark on the next step of your Microsoft Power BI Analyst learning journey! Wishing you all the best.