

55164AC QUICK POWERFUL GRAPHICS WITH POWER VIEW, POWERPIVOT, POWER QUERY, POWER MAP, AND POWER BI



COURSE SYLLABUS

COURSE TITLE:	55164AC Quick Powerful Graphics with Power View, PowerPivot, Power Query, Power Map, and Power BI
FORMAT:	Instructor-Led
CERTIFICATION EXAMS:	None

This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs. Course content, prices, and availability are subject to change without notice.

ELEMENTS OF THIS SYLLABUS ARE SUBJECT TO CHANGE.

ABOUT THE COURSE

This course is designed to teach the participant how to combine the functionality of Power View, PowerPivot, Power Query, and Power BI into graphs, charts, KPIs, reports, and other visualizations for use in their business. This course is lab example intensive.

AUDIENCE

The course is targeted towards business analysts, business intelligence developers, and reporting professionals.

AT COURSE COMPLETION

After completing this course, students will be able to:

- ▶ Navigate the Power View interface.
- ▶ Utilize Power View reports.
- ▶ Work with tables.
- ▶ Understand aggregations.
- ▶ Utilize matrix.
- ▶ Configure drill through.
- ▶ Use cards as a visualization.
- ▶ Apply filters.
- ▶ Create charts.
- ▶ Utilize tiles.
- ▶ Add slicers to reports.
- ▶ Utilize themes.
- ▶ Navigate the PowerPivot interface.
- ▶ Load data.
- ▶ Examine and configure relationships.
- ▶ Configure calculated columns and calculated fields.
- ▶ Create PivotTables.
- ▶ Understand and utilize DAX.
- ▶ Use KPIs.
- ▶ Work with hierarchies.
- ▶ Manage perspectives.
- ▶ Navigate the Power Query interface.
- ▶ Load data.
- ▶ Filter data.
- ▶ Merge datasets.



- ▶ Manage modifications.
- ▶ Perform data cleaning.
- ▶ Navigate the Power Map interface.
- ▶ Use Bing maps.
- ▶ Examine map data.
- ▶ Configure tours, scenes, and layers.
- ▶ Add time to a presentation.
- ▶ Navigate the Power BI interface.
- ▶ Utilize data sources.
- ▶ Understand querying with natural language.

PREREQUISITES

Before attending this course, students must have:

- ▶ Working knowledge of Excel

ADDITIONAL READING

To help you prepare for this class, review the following resources:

- ▶ None

MODULE 1: COURSE OVERVIEW

This module explains how the class will be structured and introduces course materials and additional administrative information.

Lessons

- ▶ Introduction
- ▶ Course Materials
- ▶ Facilities
- ▶ Prerequisites
- ▶ What We'll Be Discussing

Lab 1: COURSE OVERVIEW

- ▶ None

After completing this module, students will be able to:

- ▶ Successfully log into their virtual machine.
- ▶ Have a full understanding of what the course intends to cover.

MODULE 2: POWER VIEW

In this module, we will explore Power View and its capabilities, then briefly walk-through the types of reports available and how to format them.

Lessons

- ▶ Exploring the Power View Interface
- ▶ Visualizing Power View Reports
- ▶ Working with Tables
- ▶ Understanding Aggregations
- ▶ Utilizing Matrix
- ▶ Configuring Drill Through
- ▶ Using Cards
- ▶ Applying Filters
- ▶ Creating Charts
- ▶ Examining Tiles
- ▶ Adding Slicers to Reports
- ▶ Theming Reports

Lab 1: THE BUSINESS INTELLIGENCE STACK



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- ▶ Power View Interface
- ▶ Working with Tables
- ▶ Aggregations
- ▶ Matrix
- ▶ Drill Through
- ▶ Cards
- ▶ Filters
- ▶ Charts
- ▶ Tiles
- ▶ Adding Slicers to Reports

After completing this module, students will be able to:

- ▶ Navigate the Power View interface.
- ▶ Utilize Power View reports.
- ▶ Work with tables.
- ▶ Understand aggregations.
- ▶ Utilize matrix.
- ▶ Configure drill through.
- ▶ Use cards as a visualization.
- ▶ Apply filters.
- ▶ Create charts.
- ▶ Utilize tiles.
- ▶ Add slicers to reports.
- ▶ Utilize themes.

MODULE 3: POWERPIVOT

In this module, we will explore PowerPivot and its capabilities, then briefly walk-through the options available and how to configure them.

Lessons

- ▶ Exploring the PowerPivot Interface
- ▶ Loading Data
- ▶ Examining Relationships
- ▶ Configuring Calculated Columns and Calculated Fields
- ▶ Creating PivotTables
- ▶ Understanding DAX
- ▶ Utilizing DAX Functions
- ▶ Using KPIs
- ▶ Working with Hierarchies
- ▶ Managing Perspectives

Lab 1: POWERPIVOT

- ▶ Introduction to the PowerPivot Interface
- ▶ Importing Data
- ▶ Importing Large Datasets
- ▶ Importing Data with a Query
- ▶ Creating Relationships
- ▶ Creating a Cascading Relationship
- ▶ Hiding Columns, Change Data Type, Sorting, and Filtering
- ▶ Calculated Columns and Calculated Fields
- ▶ KPIs
- ▶ Hierarchies
- ▶ Perspectives

After completing this module, students will be able to:



- ▶ Navigate the PowerPivot interface.
- ▶ Load data.
- ▶ Examine and configure relationships.
- ▶ Configure calculated columns and calculated fields.
- ▶ Create PivotTables.
- ▶ Understand and utilize DAX.
- ▶ Use KPIs.
- ▶ Work with hierarchies.
- ▶ Manage perspectives.

MODULE 4: POWER QUERY

In this module, we will delve into the benefits and features provided using Power Query. We will examine the options available within the ribbon, as well as explore and demonstrate importing, filtering, and merging data using Power Query.

Lessons

- ▶ Exploring The Power Query Interface
- ▶ Loading Data
- ▶ Managing Modifications
- ▶ Examining Data Cleaning

Lab 1: POWER QUERY

- ▶ Getting External Data
- ▶ Data Filtering
- ▶ Merging Datasets

After completing this module, students will be able to:

- ▶ Navigate the Power Query interface.
- ▶ Load data.
- ▶ Filter data.
- ▶ Merge datasets.
- ▶ Manage modifications.
- ▶ Perform data cleaning.

MODULE 5: POWER MAP

In this module we will explore Power Map and its capabilities.

Lessons

- ▶ Exploring The Power Map Interface
- ▶ Using Bing Maps
- ▶ Examining Map Data
- ▶ Reviewing Map Types and Presentation

Lab 1: POWER MAP

- ▶ View Power Map in Action
- ▶ Geocoding
- ▶ Tours, Scenes, and Layers
- ▶ Adding Time

After completing this module, students will be able to:

- ▶ Navigate the Power Map interface.
- ▶ Use Bing maps.
- ▶ Examine map data.
- ▶ Configure tours, scenes, and layers.
- ▶ Add time to a presentation.



MODULE 6: INTRODUCTION TO POWER BI

In this module, we will explore the Power BI interface and walk-through the options available.

Lessons

- ▶ Introducing Power BI
- ▶ Explaining Excel and Power BI
- ▶ Examining Data Sources
- ▶ Querying with Natural Language

Lab 1: INTRODUCTION TO POWER BI

- ▶ Introduction to Power BI
- ▶ Data Sources

After completing this module, students will be able to:

- ▶ Navigate the Power BI interface.
- ▶ Utilize data sources.
- ▶ Understand querying with natural language.

