

XHUB POWERUP POWER PLATFORM TRAINING OUTLINE

Week 1 (March 8, March 10): Introduction to PowerApps

- Introduction to PowerApps and its capabilities
 - Understanding the Power Platform and its components
 - Creating and deploying custom apps
- Overview of the PowerApps development environment
 - Navigation and layout.
 - Common controls and how to use them
- Creating a basic PowerApp from scratch
 - Selecting the right template
 - Customizing the app layout and design
 - Adding and configuring controls
- Understanding the different types of controls and how to use them
 - Text input controls
 - Data table controls
 - Gallery controls
- Practical: Building a simple data entry PowerApp
 - Students will create a basic PowerApp that allows them to enter and save data
 - Students will learn how to add and customize controls, as well as connect to a data source

Week 2 (March 15, March 17): Introduction to PowerApps (continued)

- Understanding data sources and how to connect to them
 - Overview of the different types of data sources
 - Connecting to external data sources
 - Understanding the data structure and how to work with it
- Using formulas and expressions in PowerApps
 - Overview of the formula language
 - Using formulas to calculate values
 - Using expressions to control the visibility and behaviour of controls
- Enhancing PowerApps with custom code
 - Overview of the custom code capabilities

- Using custom code to extend the functionality of the app
- Practical: Building a more complex PowerApp that retrieves data from an external source
 - Students will create a more complex PowerApp that retrieves data from an external source
 - Students will learn how to work with data sources, formulas, and expressions, and custom code to create a more advanced app

Week 3 (March 22, March 24): Intermediate PowerApps

- Understanding data sources and how to connect to them (continued)
 - Advanced data source techniques
 - Working with large data sets
- Using formulas and expressions in PowerApps (continued)
 - Advanced formula techniques
 - Using expressions to control the visibility and behaviour of controls (continued)
- Enhancing PowerApps with custom code (continued)
 - Advanced custom code techniques
 - Using custom code to extend the functionality of the app (continued)
- Practical: Building a more complex PowerApp that retrieves data from an external source (continued)
 - Students will continue to work on the app they started in the previous week
 - Students will learn how to implement advanced data source, formula, and custom code techniques

Week 4 (March 29, March 31): Introduction to Power Automate

- Introduction to Power Automate and its capabilities
 - Understanding the Power Platform and its components
 - Creating and deploying custom workflows
- Overview of the Power Automate development environment
 - Navigation and layout
 - Common actions and how to use them
- Creating a basic Power Automate flow
 - Selecting the right template
 - Customizing the flow layout and design
 - Adding and configuring actions

- Understanding the different types of actions and how to use them
 - Data operations
 - Condition actions
 - Loop actions
- Practical: Building a simple workflow to automate a business process
 - Students will create a basic Power Automate flow that automates a simple business process
 - Students will learn how to add and customize actions, as well as connect to external systems

Week 5 (April 5, April 7): Introduction to Power Automate (continued)

- Understanding data sources and how to connect to them
 - Overview of the different types of data sources
 - Connecting to external data sources
 - Understanding the data structure and how to work with it
- Using formulas and expressions in Power Automate
 - Overview of the formula language
 - Using formulas to calculate values
 - Using expressions to control the flow of the workflow
- Enhancing Power Automate with custom code
 - Overview of the custom code capabilities
 - Using custom code to extend the functionality of the workflow
- Practical: Building a more complex Power Automate flow that integrates with PowerApps
 - Students will create a more complex Power Automate flow that integrates with a PowerApp
 - Students will learn how to work with data sources, formulas, expressions, and custom code to create a more advanced workflow

Week 6 (April 12, April 14): Intermediate Power Automate

- Understanding data sources and how to connect to them (continued)
 - Advanced data source techniques
 - Working with large data sets
- Using formulas and expressions in Power Automate (continued)
 - Advanced formula techniques

- Using expressions to control the flow of the workflow (continued)
- Enhancing Power Automate with custom code (continued)
 - Advanced custom code techniques
 - Using custom code to extend the functionality of the workflow (continued)
- Practical: Building a more complex Power Automate flow that integrates with PowerApps (continued)
 - Students will continue to work on the workflow they started in the previous week
 - Students will learn how to implement advanced data source, formula, and custom code techniques

Week 7 (April 19, April 21): Introduction to Power BI

- Introduction to Power BI and its capabilities
 - Understanding the Power Platform and its components
 - Creating and deploying custom reports
- Overview of the Power BI development environment
 - Navigation and layout
 - Common visualizations and how to use them
- Creating a basic Power BI report
 - Connecting to data sources
 - Customizing the report layout and design
 - Adding and configuring visualizations
- Understanding the different types of visualizations and how to use them
 - Bar charts
 - Line charts
 - Maps
- Practical: Building a simple Power BI report to visualize data
 - Students will create a basic Power BI report that visualizes data from a data source
 - Students will learn how to add and customize visualizations, as well as connect to data sources

Week 8 (April 26, April 28): Introduction to Power BI (continued)

- Using formulas and expressions in Power BI
 - Overview of the formula language
 - Using formulas to calculate values

- Using expressions to control the behaviour of the visualizations
- Advanced visualizations
 - Overview of different types of advanced visualizations
 - Creating advanced visualizations
 - Customizing and formatting visualizations
- Practical: Building a more complex Power BI report that integrates with PowerApps and Power Automate
 - Students will create a more complex Power BI report that integrates with PowerApps and Power Automate

Week 9 (May 3, May 5): Intermediate Power BI

- Best practices for data modelling
 - Understanding the importance of data modelling
 - Creating and maintaining a data model
 - Working with relationships and hierarchies
 - Handling data granularity and aggregation
- Best practices for report design and layout
 - Designing visually appealing reports
 - Creating a consistent layout and branding
 - Using effective data labelling and annotations
 - Utilizing effective data visualization techniques
- Best practices for report performance and scalability
 - Optimizing data models for performance
 - Utilizing effective data querying and filtering techniques
 - Utilizing effective data compression and aggregation techniques
 - Managing large data sets
- Best practices for report security and sharing
 - Managing access and permissions
 - Utilizing effective data encryption and security techniques
 - Sharing reports and data securely

Week 10-12 (May 10, May 12, May 17, May 19): Final project where students will incorporate all of the skills they have learned throughout the course, QnA, Project Assistance.