

Analytics with Tableau and Power BI

Course Duration: 40 Hours

Course Description:

This course is designed for anyone who works with data, regardless of technical or analytical background. If you're an author, analyst, designer, data scientist, or admin new to Tableau, start here. This course accommodates authoring in Tableau Desktop and Tableau Server.

Prerequisite:

Tableau Fundamentals (Optional)

- A quick walk through has been added for Tableau fundamental in Module 0.

Table of Content

Module 0: Introduction to Tableau Fundamentals

- Revisit to Tableau basics

Module 1: Get Started and Connect to Data

- Introduction to Tableau Desktop
- Connecting to data
- Customizing data sources
- Working with Data Extract

Module 2: Organize Data and Create Filters

- Creating groups and hierarchies in data
- Filtering and sorting
- Working with Dates
- Creating custom date fields and hierarchies

Module 3: Create Basic Charts

- Comparing multiple measures in Views
- Using scatter plots, text tables, highlight tables.
- Creating symbol and filled maps.
- Creating density maps
- Using bar-in-bar charts and bullet graphs

Module 4: Apply Analytics to Worksheets

- Creating calculated fields for deeper analysis
- Working with String and type conversion functions
- Working with Date and aggregate functions
- Using quick table calculations
- Using parameters

Module 5: Apply Analytics and Modify Data Connections

- Highlighting values with reference lines and bands
- Using histograms and box & whisker Plots to show distribution.
- Creating relationships between tables
- Joining tables
- Using Unions to combine data.

Module 6: Dashboards for Presentation and Sharing

- Building dashboards
- Creating interactive dashboards using actions
- Telling stories with data
- Publishing

Module 7: Dashboards for Presentation and Sharing

- Overview of Tableau Server
- Key features and capabilities
- Basic Server Administration
- Publishing and Connecting Data Sources
- Managing Data Security
- Creating Projects, Workbooks, and Views
- Publishing Workbooks
- Interactive Dashboards and Visualizations
- Managing Users and Groups
- Permissions and Security for Content
- Data Refresh and Scheduling Tasks
- Performance Tuning and Optimization

- Alerts and Subscriptions

Module 8: Analytics With Power BI

- Introduction to Power BI and its tools
- Accessing & transforming the data
- Data Relationships and Hierarchies
- Working with DAX
- Creating an interactive Report
- Publishing Reports and Sharing
- Creating a Power BI Dashboard