

Data visualization with Tableau

Duration: 40 hours

Course Overview

In this intensive 5-day course, you'll dive into the world of Tableau Visualization and administration. Whether you're an IT professional, data analyst, or business intelligence enthusiast, this course equips you with the skills needed to effectively manage and optimize your Tableau environment.

Audience Profile

- IT professionals responsible for Tableau dashboards deployment and management.
- Business users who are interested in understanding the administrative aspects of Tableau.

Table of Content:

Module 0: Getting Started with Tableau

- Introduction & Getting started with Tableau
- Navigating in Tableau
- Tableau Tools
- Introduction to Tableau: History, Purpose, Data Visualization, & VizQL
- Tableau: Products, domains, its use, and Version
- Tableau Installation: Desktop

Module 1: Telling a story through Data Visualization

- Necessity of Data Visualization
- Basics of Visual Grammar
- Creating a Context
- Filtering the data
- Visual components and basic worksheets
- Dimensions and Measures
- VizQL

Module 2: Design visualizations

- Bar charts, Line charts and Pie charts
- Advanced charts (bubble, waterfall, etc)
- Combining data from excel with PowerPoint Presentation
- Let the data speak for itself
- Choosing volume of data
- Color Management
- Creating and Changing Filters

Module 3: Common Data Visualization Methods

- Maps and Charts
- Dashboards
- Building an interactive dashboard
- Infographics
- Sankey Chart
- Spider Chart
- Geographic Referencing
- Multimedia Presentation

Module 4: Data Storytelling

- Preparing data for presentation
- Story telling
- Visual cues
- Interactivity in dashboards
- Order logic
- Adopting appropriate display
- Data viz examples

Module 5: Promoting and Updating data visualization

- Use of data viz in different Industries
- Parameters and use cases
- Groups & Sets

Module 6: Organizing and Manipulations

- Creating and Changing Filters
- Pages
- Sorting
- Hierarchies
- Dates
- Discrete and Continuous Fields Module

Module 7: Calculations in Tableau

- Totals and Aggregation
- Working with a String Calculation
- Date Calculations
- Manipulate Strings, Convert the date type
- Quick Table Calculations
- Automatic and Custom Split
- Ad-hoc analytics
- LOD Calculations

Module 8: Statistics

- Reference Lines
- Bands
- Forecasting
- Trend lines

Module 9: Managing Data Sources

- Understanding data connections in Tableau Cloud
- Connecting to cloud-based data sources
- Setting up and managing data refresh schedules

Module 10: Publishing and Sharing Content

- Publishing workbooks and data sources to Tableau Cloud
- Creating and sharing dashboards with others
- Understanding Tableau Cloud permissions (view, interact, etc.)
- Managing user roles and permissions in Tableau Cloud