

Tableau Data Visualization Masterclass (with Tableau Prep)

Duration- 5 days (40 hours)

Course Overview:

Designed for data professionals and analysts, this course helps you to transform raw data into actionable insights using Tableau. Through guided labs and projects, you'll learn to prepare data, design interactive dashboards, automate reporting, and apply best practices for performance and sharing.

Module 1: Getting Started with Tableau

- *Introduction to Tableau: History, Purpose, Data Visualization, & VizQL*
- *Tableau: Products, domains, its use, and Version*
- *Tableau: Architecture*
- *Tableau Installation: Desktop*

Module 2: Tableau Worksheet

- *Tableau Desktop interface*
- *Visual components and basic worksheets*
- *Dimensions and Measures*
- *Rows, Columns, Shelves and Marks Card*
- *Show Me and Save work*

Lab: Tableau Worksheet Creating Visual Components

Module 3: All about Data

- *Live and Extract*
- *Joins, Relationships, and Unions*
- *Data Prep Page and Metadata*
- *Data Level Filter and Data Blending*

Lab: Multi Table Analysis

Module 4: Introduction to Dashboard and Stories

- *Introduction to Dashboard in Tableau*
- *Building a Dashboard*
- *Building an interactive dashboard*
- *Share your Dashboard & Publishing to Public*
- *Introducing the concept of Stories in Tableau*

Lab: Creating Dashboard

Module 5: Organizing and Manipulations

- *Creating and Changing Filters*
- *Pages*
- *Sorting*
- *Hierarchies*
- *Dates*

- *Discrete and Continuous Fields*

Module 6: Calculations in Tableau

- *Totals and Aggregation*
- *Totals in a Crosstab*
- *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*

Lab: Calculations in Tableau

Module 7: All about Data Combination

- *Parameters*
- *Groups*
- *Sets and Bins*
- *Combined fields*
- *When to use Groups vs Calculated fields*

Module 8: Statistics

- *Reference Lines*
- *Bands*
- *Clusters*
- *Forecasting*
- *Trend lines*
- *Summary card*

Module 9: Mapping Capabilities

- *Built-in Geocoding*
- *Edit Locations*
- *Geographic Hierarchies and Geographic Search*
- *Map Layers & Map Options*
- *Custom Geocoding*
- *Background Images and Shape Files*

Module 10: Advanced Charts

- *Multiple Measures: Dual axes*
- *Combined axes*
- *Pareto Chart*
- *Waterfall Chart*

Module 11: Tableau Prep

- *What is Tableau Prep and why use it*
- *Tableau Prep interface overview*
- *Choose transformations based on business scenarios*
- *Combine data using unions*
- *Combine data using joins*
- *Shape data using aggregations*
- *Perform filtering*
- *Determine appropriate output types*

Module 12: Publishing and Sharing

- *Publishing workbooks to Tableau Cloud*
- *Setting up data-driven alerts (Viz Alerts)*
- *Subscriptions and scheduled refreshes*
- *Permissions and content management*

Module 13: Optimizing Workbook Performance

- *Introduction to workbook performance optimization*
- *Using Performance Recording to identify slow views*
- *Running the Workbook Optimizer in Tableau*

Projects:

Demo Project for Practice