

Advanced Tableau | Advanced Data Visualizations, Calculations, Analytics, Hadoop & More

Explore Next-Level Skills for Data Organization, Scripting, Visualization, Blending, Hadoop Integration and More

www.triveratech.com

Course Snapshot

- **Course:** TTDTAB025: Advanced Tableau | Advanced Data Visualizations, Calculations, Hadoop Integration & More
- **Duration:** 2 days
- **Audience & Skill-Level:** This is an intermediate-and beyond level course for experienced Tableau users.
- **Hands-on Learning:** This hands-on course combines engaging expert lessons, demos and group discussions with real-world, skills-focused machine-based labs and exercises. Student machines are required.
- **Delivery Options:** This course is available for **onsite private classroom presentation, live online virtual presentation**, or can be presented in a **blended learning format**. Please also ask about our **Self-Paced / Video / QuickSkills** or **Mini-Camp / Short Course** flexible delivery options.
- **Public Schedule:** This course has active dates on our live-online open enrollment **Public Schedule**.
- **Customizable:** This course agenda, topics and labs can be further adjusted to target your specific training skills objectives, tools and learning goals. Please ask for details.

Overview

Geared for experienced Tableau users with data analysis background and interests, **Advanced Tableau** is a two-day, lab intensive hands-on course that deep dives into next-level data analytics using Tableau. Throughout the course you'll explore a deeper dive into data visualizations beyond the basics for various analytics requirements, more advanced ways to organize and script your data, playing with time dimension, incremental loading and blending, and (optionally) integrating Tableau with R and Hadoop, advanced storyboards and more.

NOTE: The Tableau Training Series is independent-format training that can be tuned and adjusted to best meet your needs. Our materials are flexible, comprehensive, and are always instructed by a senior instructor with a deep understanding of Tableau and its most current features, benefits and functionality in a wide array of uses. This is not Official Tableau Training.

Learning Objectives

This skills-focused course combines expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our expert facilitator, students will explore:

- Why Data Visualization is Needed
- Connecting to the databases and make basic charts and graphs.
- How to make Advance Charts and Graphs.
- Scripting functionality and organizing data for effective results.
- More advanced visualizations for various analytical requirements
- Creating Time based calculations.
- Using location analytics capabilities to put geographic and other spatial context to your analysis.
- Blending and arranging data from multiple source systems for effective analysis.
- How to Integrate Tableau with R and Hadoop, Statistical Analytics, and social media analytics.
- Working in real time environment for Tableau Projects leveraging the course mini project.
- The requirement and creating various dashboards, story boards, deploying your dashboards for the project

Need different skills or topics? If your team requires different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional Tableau, reporting, data analytics, visualization and other related topics that may be blended with this course for a track that best suits your needs.

Audience & Pre-Requisites

This is an **Intermediate and beyond-level** Tableau course geared for experienced Tableau users who wish to leverage Tableau's more advanced capabilities.

Take Before: Attending students should have skills equivalent to or should have recently attended one of these courses:

- TTDTAB004 Introduction to Tableau Desktop and Data Visualization (3 days)
- TTDTAB019 Tableau Data Visualization Essentials for Experienced Users (2 days)

Take After: Please see our detailed **Tableau Training Suite** list of offerings for the complete Tableau, reporting and analytics course list, skills map and suggested learning paths.

Enhanced Learning Services: Please also ask about our **Pre-Training Class OnRamp & Prep / Primer** offerings, **Skills Gap Assessment Services, Case Studies, Knowledge Check Quizzes, Skills Immersion Programs & Camps, Collaborative Coaching & Mentoring Services** and **Extended Learning Support & Post Training** services.

Course Topics / Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We'll work with you to tune this course and level of coverage to target the skills you need most. Topics, agenda and labs are subject to change, and may adjust during live delivery based on audience interests, skill-level and participation.

1. Introduction to Data Visualization with Tableau

- Why Data Visualization is Needed
- Making sense out of Numbers
- Uses of Tableau
- Installation
- Architecture
- Features of Tableau.

2. Basic Visualization Design

- Connect to the databases and make basic charts and graphs.
- Exporting Data
- Connecting Sheets
- Loading into Tableau visualization engine.
- Basic visualizations: Text Tables, Bar, Line, Pie charts,
- Basic maps; interpreting the same.

3. Visualizations Deep Dive

- Make Advance Charts and Graphs.
- Highlight Tables
- Heat Maps, Circle Plots, Side by Side Bars, Continuous Lines, Scatter Plots, Dual Charts, Area Charts, Tree Maps.

4. Data Organization and Scripting

- Learn scripting functionality and organizing data for effective results.
- Calculated Metrics
- Sorting, Filtering
- Totals and Sub Totals
- Various Aggregated Measures, Percentages,
- Data Spotighting, Summary Card.
- Date and time functions, String Functions and logical functions
- Data Items,
- Data behind your views
- Hierarchies, Sets, Groups, Bins.

5. The World is Your Visualization

- Learn about more advanced visualizations for various analytical requirements
- Dual Charts, Dual Axis, Combination charts, Gantt Charts for activity tracking,
- Motion Charts, Box and Whisker Plots
- Reference Lines, Reference Bands
- Pareto Analysis
- Waterfall Charts
- Market Basket Analysis.

6. Playing with Time Dimension

- Create Time based calculations.
- Quick Table Calculations, Custom Table Calculations, YTD
- Parallel Period, Moving Averages, Running totals, Window Averages, Trend Lines and Predictive Models.

7. What is Your Location?

- Location analytics capabilities to put geographic and other spatial context to your analysis.
- Filled Maps, Symbol Maps
- Geo Coding
- Online Maps
- Sorting in Maps
- Background Maps.

8. Incremental Loading and Blending

- Blend and arrange your data from multiple source systems for effective analysis.
- Data Blending from multiple source systems
- Custom SQL Queries
- Creating Incremental Loads
- Creating File Extractions
- Parameters.

9. Integrating Tableau with R and Hadoop

- Integration of Tableau with R and Hadoop, Statistical Analytics, and social media analytics.

- Connect to Hadoop Systems from Tableau
- Integrating Tableau with R
- Connecting to R Server Parameterized R calls
- Mean, Median, Mode, Standard Deviation,
- Forecasting Models

10. Case Study – Optional

Sharing Insights with Enterprise Dashboards:

Work in real time environment for Tableau Projects. one mini

project will be provided with business scenarios. Understand the requirement and creating various dashboards, story boards, deploying your dashboards for the project.

- Mini end-end project with Business case study. Interactive Dashboards, Action Filters, Story Boards, Best Practices, Cover Pages, Annotations, Tool Tips, keyboard short cuts, Legends, Sharing your work, Deploying to server, Tableau Online, Tableau Reader, and Tableau Public

Hands-on Setup Made Simple! All course software (limited version Tableau, for course use only), courseware files or course notes (as applicable), labs / data sets and solutions (as applicable) are provided for you in our “easy access / no install required” remote lab environment. Our dedicated live tech team works with every student to ensure everyone is set up with working access and ready to go prior to every course start date, ensuring a smooth delivery and great hands-on experience. Please ask for details.

For More Information

All courses can be presented **onsite** or **online**, or in a **combined / flex / blended learning format**, tailored to target your specific audience, needs and learning goals. We also offer focused, flexible **short courses, self-paced learning options, recorded sessions** and more. We train beginner to advanced skills in all areas we cover, and offer **New Hire / Cohort Training, Boot Camps, Skills Immersion Programs, Reskilling Programs, Skills Migration & Transition Programs**, and more. We collaborate with you to ensure all courses are truly targeted to meet your specific needs and learning skills, maximizing your valuable training time, as well as your important budget.

Please also visit our extensive **Public Training Schedule** for training for smaller groups or individuals. Please contact us for course details, **Corporate Rates** and **Special Discount Offers**.

For more information about our dedicated training services, collaborative coaching services, courseware licensing options, public course schedule, training management services, partner programs, or to see our complete list of course offerings and special offers please visit us at www.triveratech.com, email Info@triveratech.com or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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