

Advanced Tableau Desktop / Tableau Desktop II

- TTDTAB007

Transform your dashboards from basic to brilliant using advanced interactivity, design principles, and filtering techniques.

Duration: 2 Days

Skill Level: Intermediate

Available Format: Instructor-Led Online; Instructor-Led, Onsite In Person ; Blended;
On Public Schedule

Ready to take your Tableau game to the next level? This hands-on, skills-focused course helps you unlock the full potential of Tableau with advanced techniques for data blending, calculations, filtering, and dashboard design. You will dive into real-world exercises that teach you how to work with multiple data sources, build interactive dashboards, forecast trends, and tell powerful data stories that drive action. Along the way, you'll sharpen your ability to solve complex data problems and present insights with clarity and impact. Whether you're building reports for your team or leading data initiatives, this course will give you the tools and confidence to deliver smarter, faster, and more engaging visual analytics.

What You'll Learn

Overview

Advanced Tableau Desktop / Tableau Desktop II is a hands-on course designed for users who already know the basics of Tableau and are ready to build deeper, job-ready skills for working with complex data. Tableau is a powerful platform, and learning its advanced features helps you solve real business problems faster, analyze information more accurately, and share interactive insights that teams can trust. If you have experience creating visualizations and dashboards and are ready to do more with your data, this course will help you level up your skills in a meaningful, practical way.

You will spend most of your time in the tool, guided by an expert instructor through real-world projects and advanced techniques. You will work with relationships, joins, unions, and blends to manage multiple data sources, and learn strategies for cleaning messy data, using data extracts, and handling missing values. You will build calculations of all types—from basic to row-level, aggregate, and Level of Detail (LOD)—and apply table calculations and parameters to create more dynamic and flexible dashboards. You will also explore advanced filters, interactivity, and sophisticated visualizations like box-and-whisker plots, bar-in-bar charts, and forecasts.

Throughout the course, you will build visual solutions that mirror actual business use cases, giving you hands-on experience that translates directly to your daily work. You will leave the class knowing how to structure, analyze, and present data in ways that go far beyond the basics. Whether you are supporting operations, finance, sales, or analytics, this course gives you the skills to answer more complex questions, build smarter dashboards, and be seen as a go-to resource on your team.

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.

Objectives

The goal of **Advanced Tableau Desktop** is to help you build the practical skills needed to manage complex data, create advanced calculations, and design highly interactive, professional dashboards. By the end of the course, you will be able to:

- Combine data from multiple sources using relationships, joins, blends, and unions to build reliable data models.
- Clean and prepare data using tools like custom splits, filters, the Data Interpreter, and options for handling missing or inconsistent values.
- Write and apply advanced calculations, including row-level, aggregate, and Level of Detail (LOD) expressions, to power your dashboards.
- Use parameters and table calculations to make your visualizations more interactive and responsive to user input.
- Design and apply advanced filters, reference lines, trend lines, forecasts, and visual analytics tools to highlight key insights.

- Build advanced charts, dashboards, and maps that include drill-downs, custom geocoding, and user-driven actions for real-time exploration.

If your team requires different topics, additional skills or a custom approach, our team will collaborate with you to adjust the course to focus on your specific learning objectives and goals.

Audience

This is an **Intermediate and beyond-level** Tableau course, ideal for professionals who already use Tableau and want to level up their skills. Think business analysts, data specialists, team leads, and anyone who builds reports or dashboards regularly. If you are comfortable creating basic charts and using filters in Tableau, you're ready for this next step. A little experience working with data (like spreadsheets, databases, or simple analytics tools) will help you get the most out of the hands-on labs.

Pre-Requisites

This course is designed for professionals who already use Tableau and are ready to expand their skills. It is ideal for analysts, report developers, data leads, and others who are responsible for deeper reporting, analysis, or dashboard creation.

To get the most out of this course, you should:

- Be comfortable using Tableau to create basic charts and dashboards
- Understand how to connect to data and use filters, measures, and dimensions
- Have experience answering business questions with data visualizations

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

TTDTAB006 Tableau Desktop Fundamentals

Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We will work with you to tune this course and level of coverage to target the skills you need most. Course agenda, topics and labs are subject to adjust during live delivery in response to student skill level, interests and participation.

Data Models and Relationships

- Data Models
- Understanding Relationships
- Data Model Layers
- Creating a Data Model
- Benefits of Relationships

Joins, Blends, and Unions

- Understanding Joins
- Types of Joins
- Creating Joins
- Writing Join Calculations
- Troubleshooting Joins
- Blending Multiple Data Sources
- Blending Data in a View
- Blending and Calculations
- Benefits of Blending
- Using Unions to Combine Data
- Appending Row Data with Unions

Data Cleaning

- Handling NULL and Other Special Values
- Handling Missing Data, Outliers, and Incorrect Data Types
- Splitting Data Fields
- Custom Splits
- The Data Interpreter
- Data Source Filters
- What is Ask Data?
- Building a View Using Ask Data
- Accessing Data in PDFs

Extracting Data

- Extracting Data
- Pros and Cons of Extracts
- Creating an Extract
- Refreshing and Adding Data to Extracts

Sets

- Creating Sets

- Using Sets to Highlight Data
- Combining Sets

Advanced Calculations

- Understanding Calculations
- Creating Calculated Fields
- The Calculation Editor
- Function Categories
- Operators, Keywords, and Syntax Conventions
- Data Types
- Types of Calculations

Row-Level and Aggregate Calculations

- Row-Level Calculations
- String Functions
- Date Functions
- Logical Functions
- Ad Hoc Calculations
- Aggregate Calculations
- Measure Names and Measure Values
- Common Calculation Error

Level of Detail Calculations

- What is Level of Detail?
- Data Level of Detail
- View Level of Detail
- Calculated Level of Detail
- Using Level of Detail Calculations
- LOD Expression Syntax
- FIXED Level of Detail Expression
- INCLUDE Level of Detail Expression
- EXCLUDE Level of Detail Expression
- Creating LOD Calculations

Table Calculations

- What is a Table Calculation?
- Understanding the Virtual Table
- Table Calculation Considerations
- Creating Table Calculations

- Quick Table Calculations
- Controlling Scope and Direction
- Scope and Direction Options
- Index()

Parameters

- Understanding Parameters
- Creating a Parameter
- Using a Parameter

Advanced Filters

- Filter Context
- Understanding Advanced Filters
- Using Context Filters
- Using LOD Expressions with Filters

Advanced Charting

- Symbol Map, Area Map, Box-and-Whisker
- Building Box and Whisker Plots
- Building Histograms
- Creating Bar-in-Bar Charts
- Creating Bullet Graphs
- Using the Analytics Pane
- Adding Trend Lines
- Using Drop Lines
- Adding Reference Lines, Bands, Distributions, and Boxes
- Creating a Forecast

Adding Interactivity

- Understanding Actions
- Filter Actions
- Highlight Actions
- Highlight Action Methods
- URL Actions
- Parameter Actions
- Set Actions
- Creating Interactive Dashboards Using Actions

Advanced Mapping

- Creating Advanced Maps
- Editing Location Data
- Customizing Geocodes for Addresses
- Plotting Data on a Custom Background
- Creating Territories on a Map
- Measuring Distances

Related Courses

TTDTAB005	Tableau Server Administration
TTDTAB006	Tableau Desktop Fundamentals
TTDTAB010	Getting Started with Tableau Prep
TTDTAB007	Advanced Tableau Desktop / Tableau Desktop II

Setup Made Simple! All digital course files or course notes, labs, data sets and solutions, live coaching support channels and rich extended learning and post training resources are provided for you in our easy access, single source, no install required online Learning Experience Platform (LXP), remote lab and content environment. Or we can provide a local installation (trial edition) to setup and use on your machine. Access periods and versions vary by course. Please inquire about set up details and options for your specific course of interest. Regardless of setup option, we will collaborate with you to ensure your team is set up and ready to go well in advance of the class.

Ways to Learn: At Trivera, we believe that **Experience is Everything**. Our customizable, hands-on courses are delivered live online, onsite, or in a blended format for maximum flexibility. We provide real-time expert-led training and coaching for all skill levels, from small groups to enterprise-wide programs, ensuring every learner gains the latest, most relevant job-ready skills they can apply with confidence. This course is also available for individuals or small groups on our extensive Public Schedule (see current dates below). We look forward to helping you take the next steps in your modern web developer learning journey.

For More Information

Please [contact us](#) or call 844-475-4559 toll free for more information about our training services (instructor-led, self-paced or blended), coaching and mentoring services, public

course enrollment or questions, partner programs, courseware licensing options and more.