



TEKNION

data solutions

COURSE CATALOG

TEKNIONUSA.COM



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WHY CHOOSE TEKNION?

In order for the knowledgeable employee to get the most value out of their data they must have the skills to leverage the powerful tools at their disposal. We believe in empowering our customers by delivering world-class training to them for the products that we re-sell and implement. Our trainers are consistently ranked among the highest in the industry. Whether you have a team of hundreds or are a one-person show, we offer what you need to get up to speed on WhereScape, Alteryx and Tableau.

TEKNION'S UNIQUE APPROACH TO TRAINING:

- Two Tableau Zen Masters and a Tableau Social Ambassador on staff
- Utilization of the books Learning Tableau and Mastering Tableau by Teknion's own Joshua Milligan and David Baldwin
- Modular options that are more affordable and customizable than other training solutions
- Two WhereScape options: on-site, instructor-led training or remote, self-guided training

OUR AWARD-WINNING TRAINING QUALIFICATIONS:

- Tableau: 2016 Tableau Services and Training Partner of the Year
- WhereScape: Only U.S. Platinum Partner; two-time United States Partner of the Year
- Alteryx: 2017 North America Partner of the Year

TABLEAU TRAINING

TABLEAU-AUTHORIZED TRAINING OPTIONS

Teknion is certified to conduct training on all Tableau Desktop curriculum offered by Tableau Software. Here are the official Tableau training classes we offer:

Tableau Desktop I – Fundamentals: This two-day course is designed for anyone who works with data, regardless of technical or analytical backgrounds. You'll learn how to navigate Tableau Desktop and examine core concepts and techniques in Tableau, and move from creating visualizations to combining them in interactive dashboards.

YOU'LL LEARN HOW TO:	CHART TYPES COVERED:
Connect to your data.	Cross Tabs
Edit and save a data source.	Pie and bar charts
Understand Tableau terminology.	Geographic maps
Use the Tableau interface/paradigm to effectively create powerful visualizations.	Dual axis and combo charts with different mark types
Create basic calculations including basic arithmetic calculations, custom aggregations and ratios, date math, and quick table calculations.	Heat maps Highlight tables Tree maps
Build dashboards to share visualizations.	Scatter plots

Tableau Desktop II – Intermediate: This two-day course is designed to provide you with the skills required to become a Tableau power user. Made for the professional who has solid working experience with Tableau and wants to take it to the next level. Requires a deep understanding of all the fundamental concepts of building worksheets and dashboards, but helps with more complex issues.

YOU'LL LEARN HOW TO:	
Build advanced chart types and visualizations.	Prep your data for analysis.
Build complex calculations to manipulate your data.	Combine data from multiple tables in the same data source using joins.
Use statistical techniques to analyze your data.	Make your visualizations perform as well as possible using the Data Engine, extracts, and efficient connection methods.
Use parameters and input controls to give users control over certain values.	Build better dashboards using techniques for guided analytics, interactive dashboard design, and visual best practices.
Implement advanced geographic mapping techniques and use custom images and geocoding to build spatial visualizations of non-geographic data.	Implement efficiency tips and tricks.

Tableau Desktop III – Advanced: This two-day course explores complex data visualization challenges and digs deeper into your data. Learn advanced chart techniques for creating innovative analysis and dashboards. Get a better understanding of how to artfully prepare and organize your data and how to get the most out of Tableau Desktop's more technical features.

YOU'LL LEARN HOW TO:	
Apply advanced calculations to gain additional insight into your data.	Use Tableau techniques to address common business use cases.
Incorporate advanced chart types into your analysis.	Format your visualizations and dashboards for maximum impact.
Apply advanced dashboarding techniques.	Real world business scenario examples.
How to use calculations, parameters, and table calculations in tandem.	

Tableau Desktop I & II – Accelerated: This three-day course combines the Tableau Desktop I and II classes for an accelerated learning experience. It is intended for new Tableau users who are transitioning into Tableau with a good background in using other BI tools. For more details on what this course covers, see the above descriptions for Desktop I and Desktop II.

Visual Analytics: This two-day course connects the science of data visualization to the principles of visual best practices. You will learn how to leverage research on human perception to create Tableau visualizations that truly help people see and understand data.

YOU'LL LEARN HOW TO:	
Describe the history, theory, and science behind data visualization, and how all this is built into Tableau's DNA.	Use some basic principles of human visual perception and cognition in your chart design.
Engage in the data analysis process including everything from planning your line of questioning to reviewing and communicating your findings.	Critique charts and dashboards and offer suggestions for improvement.

TEKNION'S CUSTOM TRAINING OPTIONS

Teknion offers three fixed classes and 16 pick-your-own modular classes.

Fixed Classes

Learning Tableau: A three-day course comprised of six modules covering beginner and intermediate topics.

Mastering Tableau: A three-day course covering advanced topics.

What's New in Tableau: A one-day course to bring you up to speed on the latest features in Tableau.

Fundamental and Intermediate Training

Module A – Intro to Tableau: Part 1 introduces the basic concepts of data visualization and provides multiple examples. These examples build on each other and culminate in an interactive dashboard. Part 2 demonstrates that Tableau has a very distinctive paradigm for working with data. This chapter explores that paradigm and provides hands-on examples of connecting to and working with various data sources.

Module B – Exploring Visualization Best Practices: Expands on the basic concepts discussed in the previous module by showing how standard visualization types can be extended. Students complete more than twenty exercises exploring visualization types.

Module C - Creating and Understanding Calculated Fields and Table Calculations in Tableau: Part 1 introduces the concepts of calculated fields and the practical use of calculations, and walks through the foundational concepts for creating row-level and aggregate calculations. Part 2 demonstrates that, though one of the most complex aspects of Tableau, table calculations are also one of its most powerful features. This part of the module breaks down the basics of scope and direction to help you understand and use table calculations to solve practical problems.

Module D – Formatting and Dashboarding: Part 1 shows how formatting can make a standard visualization look great, have appeal and communicate well. Hands-on opportunities are provided for students to explore formatting in Tableau. Part 2 dives into the details of building dashboards and telling stories with data. Material learned includes the types of dashboards, objectives of dashboards, and concepts such as actions and filters. All of this is done in the context of practical examples.

Module E – Analytics and Data Structure: Part 1 explores the analytical capabilities of Tableau and demonstrates how to use trend lines, distributions, and forecasting to dive deeper into data analysis. Part 2 explains how data in the real world isn't always well structured. Effectively structuring data is discussed and techniques and examples are provided to address data issues that can't be fixed at the data source level.

Module F – Tips, Tricks and Sharing: Part 1 builds on the concepts covered in the previous modules by introducing numerous advanced techniques while giving practical advice and tips. Part 2 throws light on the fact that, once visualizations and dashboards are built, they will be shared. Numerous methods for sharing stories with others are explored.

Advanced Training

Module G – All About the Data: Part 1 begins by exploring challenges when creating complex joins in Tableau. Next, data blending shortcomings and workarounds are discussed. Lastly, using Tableau as a data-modeling tool is explored. Part 2 surveys data densification and how to use this sometimes-surprising behavior advantageously in Tableau. Additional material includes exploring Tableau’s ability to work with cubes and big data.

Module H – Advanced Table Calculations: Unlocks the mystery of table calculations. Each unique table calculation is explored via practical exercises. Also provided is a detailed discussion of scope and direction, which is often confusing to even advanced Tableau authors.

Module I – Level-of-Detail Calculations: Explores the ins and outs of LOD (Level of Detail) calculations. This module provides the theoretical basis for understanding how LOD calculations work and then walks through useful scenarios for everyday work with Tableau.

Module J – Beyond the Basic Chart Types: Considers how to improve everyday visualizations and explores other visualization types and techniques that are valuable yet often underutilized. Special attention is given to geo-coding alternatives and background mapping.

Module K – Advanced Mapping: Considers how to improve everyday visualizations and explores other visualization types and techniques that are valuable yet often underutilized. Special attention is given to geo-coding alternatives and background mapping.

Module L – Tableau for Presentations: Discusses techniques for integrating Tableau with PowerPoint as well as how to use Tableau as a standalone presentation tool via animation and story points.

Module M – Visualization Best Practices and Dashboard Design: Considers how to improve everyday visualizations and explores other visualization types and techniques that are valuable yet often underutilized. Special attention is given to geo-coding alternatives and background mapping.

Module N – Improving Performance: Breaks down performance issues and explores techniques for solving those issues. Topics discussed include understanding the performance recording dashboard, hardware and on-the-fly techniques, performance with joining and blending, efficiently working with data sources, intelligent extracts, using filters wisely, creating efficient calculations and more.

Module O – Interacting with Tableau Server: Explores how to optimize Tableau Server architecture for best performance and easiest maintenance. The chapter also considers the web authoring environment, user filters, and accessing the Performance Recording dashboard via Tableau Server.

Module P – R Integration in Tableau: Shows how to integrate Tableau with the statistical world of R. This module guides students through initially connecting Tableau to R, writing R code, and utilizing the resulting statistical analysis effectively within visualizations. Some knowledge of R is helpful but not necessary for this module.

WANT TO SIGN UP FOR TEKNION'S
TABLEAU TRAINING?

SCHEDULE A CONSULTATION TODAY!

WHERESCALE TRAINING

We have two options for WhereScale training: 1, we send an instructor to teach you on-site at your company premises; or 2, we give you resources to complete training online at your own computer, at your own pace.

TEKNION'S WHERESCALE TRAINING OPTIONS:

WhereScale RED Training: This four-day course is designed to get a team ramped up on WhereScale RED as fast as possible. It covers a broad range of topics including: installation and configuration of RED, loading data, transforming data, managing and deploying a RED data warehouse, and best practices for using RED for data warehousing.

WhereScale RED + 3D Training: This five-day course incorporates an additional day of training on WhereScale 3D into the WhereScale RED training course above.

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WHERESCALE TRAINING?

SCHEDULE A CONSULTATION TODAY!

ALTERYX TRAINING

We take the same approach with our Alteryx training as we do with our WhereScape training: choose on-site training or self-guided remote training.

TEKNION'S ALTERYX TRAINING OPTIONS:

Alteryx Core Concepts: Through lectures and labs, this two-day class provides the building blocks required to complete more complex analytical tasks with Alteryx Designer. Students will gain a thorough understanding of important concepts that enable them to prepare, parse, blend, transform, and analyze data from disparate sources and output results.

Application & Macro Development: This one-day class is designed for intermediate to advanced Alteryx users and teaches students how to use interface design tools to build customizable analytic applications and package common Alteryx workflow segments into repeatable macros. Students will also learn how to validate the output and data of applications, manage version control, and iterate data.

Alteryx Predictive Analytics: In this one-day class students will learn how to utilize pre-packaged macros built with R for specific analytics, including data investigation and predictive modeling. This class will help those unfamiliar with statistical and modeling concepts to understand how to incorporate these advanced analyses into a drag-and-drop Alteryx workflow.

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FOR MORE INFORMATION ABOUT OUR
TRAINING COURSES,
PLEASE CONTACT US AT
TRAINING@TEKNIONUSA.COM
OR 214-614-7606.

TEKNION
data solutions

1431 Greenway Drive, Suite 440, Irving, Texas 75038
teknionusa.com | Phone: 214-614-7600