

**Advanced Tableau**

**Course Number:** TAB-118
**Duration:** 2 days

**Overview**

This Advanced Tableau training course takes your team's analytical abilities and insights to the next level!  Master using new types of visualizations, advanced time-series analytics, advanced calculations, statistical analytics, and much more! This Tableau course also teaches participants how to turn basic formatting into magazine-quality infographics while quantifying impacts.

**Prerequisites**

All attendees must have:

* Three to six months of regular Tableau usage, or completion of our [Introduction to Tableau](file:////training/tableau-introduction-analyst) and [Intermediate Tableau](file:////training/tableau-intermediate) courses
* Familiarity with calculations

**Materials**

All Advanced Tableau training students receive comprehensive courseware.

**Software Needed on Each Student PC**

* Tableau Desktop
* Microsoft Excel 2016 or later
* Internet access
* Related data and lab files that Accelebrate would provide

**Objectives**

* Use advanced time-series analytics
* Apply advanced calculations
* Understand correlation analytics and relationships between data
* Apply advanced geographic analysis
* Leverage advanced geographic analysis
* Create advanced charts and dashboards
* Apply advanced interactivity

**Outline**

* Introduction
* What keeps the CEO up at night?
* How to Ask the Right Questions
	+ Where to find answers to these questions
* What Makes a Visualization Effective?
* The Ninja Analyst Framework
* Advanced Time Series Analytics
	+ Cycle Plots
	+ Line Chart with Percent Change and YOY Growth
	+ Running Total Charts
	+ Forecasting
		- How to use them and when
		- How to interpret them
		- How to adjust them
		- Regression forecasting
		- Moving Average forecasting
		- Seasonal forecasting
* Advanced Calculations
	+ Review of Ratios and Aggregations
	+ Logic & Date calculations
		- YTD calcs
	+ Level of Detail calculations
		- Fixed
		- Include
		- Exclude
		- Table-Scoped
* Applying Calculations to Formatting
	+ Percent of Total and Double Labels
	+ Bar Chart with Max Color Calc
	+ Seeing What’s Changed Beyond the Top 10
* Statistical Analysis and Relationships Between Data
	+ Exploring Variation through visualization
		- Using Jitter Plots
		- Percentiles
		- Standard Deviations
	+ Quadrant Charts
	+ “Relative To” Charts
	+ Linear Regression & How to Interpret
	+ Distributions with Confidence Intervals
	+ Control Charts
	+ Box Plots
	+ Clustering
		- When to use
		- How to interpret
		- How to adjust
* KPIs and BANS
	+ Reference Line Comparisons
	+ KPI Indicators with YTD vs. Prev YTD (or similar types of time periods)
* Advanced Geographic Analysis
	+ Filled Map
	+ Symbol Map
	+ Dual Axis Map
	+ Custom maps
	+ Custom territories or regions
	+ Mapbox
	+ Background maps
* Other Advanced Charts
	+ Barbell Charts
	+ Funnel Charts
	+ Small Multiples
	+ Sparklines
	+ Donut Chart
	+ Waterfall Chart
	+ Bulletgraph
	+ Bar in Bar chart
* Advanced Dashboards
	+ Layouts
	+ Using & Formatting Layout Containers
	+ Formatting
	+ Fonts
	+ Colors
	+ Key Insights
	+ Providing Recommendations
	+ Quantifying Insights and Impacts of Recommendations
	+ Storypoints
* Advanced Interactivity
	+ Set Actions
	+ Parameter Actions
* Using these skills to advance your career and get promoted
* Conclusion