



Tableau Certification Training

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About the Program

Intellipaats Tableau training will help you master building interactive Tableau dashboards and learning data visualization. This Tableau course will prepare you for the Tableau Desktop Qualified Associate Certification exam. You will learn about Tableau Desktop and Public integration with R and Big Data in this Tableau certification training. The course is best for software developers, Systems and IT Administrators, and BI experts

About Intellipaat

Intellipaat is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

Key Features



**30 HRS INSTRUCTOR-LED
TRAINING**



16 HRS SELF-PACED TRAINING



**32 HRS REAL-TIME
PROJECT WORK**



LIFETIME ACCESS



24/7 TECHNICAL SUPPORT



**INDUSTRY-RECOGNIZED
CERTIFICATION**



**JOB ASSISTANCE THROUGH
80+ CORPORATE TIE-UPS**



FLEXIBLE SCHEDULING

Career Support



SESSIONS WITH INDUSTRY MENTORS

Attend sessions from top industry experts and get guidance on how to boost your career growth



MOCK INTERVIEWS

Mock interviews to make you prepare for cracking interviews by top employers



GUARANTEED INTERVIEWS & JOB SUPPORT

Get interviewed by our 400+ hiring partners



RESUME PREPARATION

Get assistance in creating a world-class resume from our career services team



Why take up this course?

- Global Business Intelligence and Analytics market will expand to US\$22.8 billion in the next 2 years – Gartner
- The average salary paid to Tableau professionals is 77% higher than all other job profiles – Indeed
- Tableau ranks first in the Leader quadrant of the Gartner Magic Quadrant of BI for the fourth consecutive year – Gartner

Not only is the demand for Tableau experts great, but it also offers huge returns. Tableau Developers earn an average annual salary of US\$112,000 in the United States and ₹900,000 in India. Tableau is a full Business Intelligence (BI) platform, where anyone can quickly view, search, and analyze data. With Tableau, you can connect to the data you need, whether it is a small database, big data, or cloud data. Also, with its exclusive drag-and-drop functionality, you can easily spot trends and outliers.

Who should take up this course?

- Data Scientists, Business Intelligence Professionals, and Testing Professionals
- Statisticians, Business Analysts, and Project Managers
- Data Visualization Analysts and Functional Experts
- Graduates and professionals looking to move into the analytics domain

Program Curriculum

Tableau Training Course Content

- **INTRODUCTION TO DATA VISUALIZATION & THE POWER OF TABLEAU**

- 1.1 What is data visualization?
- 1.2 Comparison and benefits against reading raw numbers
- 1.3 Real use cases from various business domains
- 1.4 Some quick and powerful examples using Tableau without going into the technical details of Tableau
- 1.5 Installing Tableau
- 1.6 Tableau interface
- 1.7 Connecting to a data source
- 1.8 Tableau data types
- 1.9 Data preparation

- **ARCHITECTURE OF TABLEAU**

- 2.1 Installation of Tableau Desktop
- 2.2 Architecture of Tableau
- 2.3 Interface of Tableau (layout, toolbars, Data pane, Analytics pane, etc.)
- 2.4 How to start with Tableau
- 2.5 The ways to share and export the work done in Tableau

***Hands-on Exercise:** Play with Tableau Desktop, learn about the interface, and share and export existing works*

- **WORKING WITH METADATA & DATA BLENDING**

- 3.1 Connection to Excel
- 3.2 Cubes and PDFs
- 3.3 Management of metadata and extracts
- 3.4 Data preparation
- 3.5 Joins (Left, Right, Inner, and Outer) and Union

3.6 Dealing with NULL values, cross-database joining, data extraction, data blending, refresh extraction, incremental extraction, how to build extract, etc.

Hands-on Exercise: Connect to an Excel sheet to import data, use metadata and extracts, manage NULL values, clean up the data before using, perform the join techniques, and execute data blending from multiple sources

- **CREATION OF SETS**

4.1 Mark, highlight, sort, group, and use sets (creating and editing sets, IN/OUT, and sets in hierarchies)

4.2 Constant sets

4.3 Computed sets, bins, etc.

Hands-on Exercise: Use marks to create and edit sets, highlight the desired items, make groups, apply sorting on results, and make hierarchies among the created sets

- **WORKING WITH FILTERS**

5.1 Filters (addition and removal)

5.2 Filtering continuous dates, dimensions, and measures

5.3 Interactive filters, marks cards, and hierarchies

5.4 How to create folders in Tableau

5.5 Sorting in Tableau

5.6 Types of sorting

5.7 Filtering in Tableau

5.8 Types of filters

5.9 Filtering the order of operations

Hands-on Exercise: Use the dataset by date/dimensions/measures to add a filter, use interactive filter to view the data, and customize/remove filters to view the result

- **ORGANIZING DATA & VISUAL ANALYTICS**

6.1 Using the Formatting pane to work with the menu, fonts, alignments, settings, etc.

6.2 Formatting data using labels and tooltips

6.3 Editing axes and annotations

6.4 K-means cluster analysis

6.5 Trend and reference lines

6.6 Visual analytics in Tableau

6.7 Forecasting, confidence interval, reference lines, and bands

Hands-on Exercise: Apply labels and tooltips to graphs and annotations, edit axes' attributes, set the reference line, and perform k-means cluster analysis on the given dataset

- **WORKING WITH MAPPING**

7.1 Working on coordinate points

7.2 Plotting longitude and latitude

7.3 Editing unrecognized locations

7.4 Customizing geocoding, polygon maps, and WMS (web mapping services)

7.5 Working on the background image and using add image

7.6 Plotting points on images and generating coordinates from them

7.7 Map visualization, custom territories, map box, and WMS map

7.8 How to create map projects in Tableau

7.9 Creating dual axes maps and editing locations

Hands-on Exercise: Plot longitude and latitude on a geo map, edit locations on the geo map, use custom geocoding, use the images of the map and plot points, find coordinates, create a polygon map, and use WMS

- **WORKING WITH CALCULATIONS & EXPRESSIONS**

8.1 Calculation syntax and functions in Tableau

8.2 Various types of calculations, including table, string, date, aggregate, logic, and number

8.3 LOD expressions, including concept and syntax

8.4 Aggregation and replication with LOD expressions

8.5 Nested LOD expressions

8.6 Levels of details: the fixed level, the lower level, and the higher level

8.7 Quick table calculations

8.8 The creation of calculated fields

8.9 Predefined calculations

8.10 How to validate them

- **WORKING WITH PARAMETERS**

- 9.1 Creating parameters
- 9.2 Parameters in calculations
- 9.3 Using parameters with filters
- 9.4 Column selection parameters
- 9.5 Chart selection parameters
- 9.6 How to use parameters in the filter session
- 9.7 How to use parameters in calculated fields
- 9.8 How to use parameters in the reference line

Hands-on Exercise: Create new parameters to apply on a filter, pass parameters to filters to select columns, and pass parameters to filters to select charts

- **CHARTS & GRAPHS**

- 10.1 Dual axes graphs
- 10.2 Histograms
- 10.3 Single and dual axes
- 10.4 Box plot
- 10.5 Charts: motion, Pareto, funnel, pie, bar, line, bubble, bullet, scatter, and waterfall charts
- 10.6 Maps: tree and heat maps
- 10.7 Market basket analysis (MBA)
- 10.8 Using Show me
- 10.9 Text table and highlighted table

Hands-on Exercise: Plot a histogram, tree map, heat map, funnel chart, and more using the given dataset, and perform market basket analysis (MBA) on the same dataset

- **DASHBOARDS & STORIES**

- 11.1 Building and formatting a dashboard using size, objects, views, filters, and legends
- 11.2 Best practices for making creative and interactive dashboards using actions
- 11.3 Creating stories, including the intro of story points
- 11.4 Creating and updating the story points
- 11.5 Adding catchy visuals in stories
- 11.6 Adding annotations with descriptions; dashboards and stories

- 11.7 What is a dashboard?
- 11.8 Highlight actions, URL actions, and filter actions
- 11.9 Selecting and clearing values
- 11.10 Best practices to create dashboards
- 11.11 Dashboard examples using Tableau workspace and Tableau interface
- 11.12 Learning about Tableau joins
- 11.13 Types of joins
- 11.14 Tableau field types
- 11.15 Saving and publishing a data source
- 11.16 Live vs extract connection
- 11.17 Various file types

Hands-on Exercise: Create a Tableau dashboard view, include legends, objects, and filters, make the dashboard interactive, and use visual effects, annotations, and descriptions to create and edit a story

- **TABLEAU PREP**

- 12.1 Introduction to Tableau Prep
- 12.2 How Tableau Prep helps quickly combine join, shape, and clean data for analysis
- 12.3 Creation of smart examples with Tableau Prep
- 12.4 Getting deeper insights into the data with great visual experience
- 12.5 Making data preparation simpler and accessible
- 12.6 Integrating Tableau Prep with Tableau analytical workflow
- 12.7 Understanding the seamless process from data preparation to analysis with Tableau Prep

- **INTEGRATION OF TABLEAU WITH R & HADOOP**

- 13.1 Introduction to R language
- 13.2 Applications and use cases of R
- 13.3 Deploying R on the Tableau platform
- 13.4 Learning R functions in Tableau
- 13.5 The integration of Tableau with Hadoop

Hands-on Exercise: Deploy R on Tableau, create a line graph using the R interface, and connect Tableau with Hadoop to extract data

Tableau Projects

Understanding the global covid-19 mortality rates

Analyze and develop a dashboard to understand the covid-19 global cases. Compare the global confirmed vs. death cases in a world map. Compare the country wise cases using logarithmic axes. Dashboard should display both a log axis chart and a default axis chart in an alternate interactive way. Create a parameter to dynamically view Top N WHO regions based on cumulative new cases and death cases ratio. Dashboard should have a drop down menu to view the WHO region wise data using a bar chart, line chart or a map as per user's requirement.

Understand the UK bank customer data

Analyze and develop a dashboard to understand the customer data of a UK bank. Create an asymmetric drop down of Region with their respective customer names and their Balances with a gender wise color code. Region wise bar chart which displays the count of customers based on High and low balance. Create a parameter to let the users' dynamically decide the limit value of balance which categorizes it into high and low. Include interactive filters for Job classifications and Highlighters for Region in the final dashboard.

Understand Financial Data

Create an interactive map to analyze the worldwide sales and profit. Include map layers and map styles to enhance the visualization. Interactive analysis to display the average gross sales of a product under each segment, allowing only one segment data to be displayed at once. Create a motion chart to compare the sales and profit through the years. Annotate the day wise profit line chart to indicate the peaks and also enable drop lines. Add go to URL actions in the final dashboard which directs the user to the respective countries Wikipedia page.

Understand Agriculture Data

Create interactive tree map to display district wise data. Tree maps should have state labels. On hovering on a particular state, the corresponding districts data are to be displayed. Add URL actions, which direct users' to a Google search page of the selected

crop. Web page is to be displayed on the final dashboard. Create a hierarchy of seasons, crop categories and the list of crops under each. Add highlighters for season. One major sheet in the final dashboard should be unaffected by any action applied. Use the view in this major sheet to filter data in the other. Using parameters color code the seasons with high yield and low yield based on its crop categories. Rank the crops based on their yield

Certification

After the completion of the course, you will get a certificate from IntelliPaat.



CERTIFICATE OF COMPLETION

This certificate is awarded to

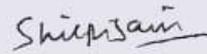
Your Name

Who has successfully completed

Course Name

Fulfilling all the requirements stipulated by IntelliPaat to achieve professional excellence.

Issued Date: Month XX, XXXX



Mrs. Shilpi Jain
Director,
intellipaate Software Solutions Pvt. Ltd.

VERIFIED
CERTIFICATE

Certificate ID #94658291

Success Stories



Kevin K Wada

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on

10!



Sampson Basoah

The Intellipaate team helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers are always ready to answer any question. I found this course to be impactful. Thank you.



Sugandha Sinha

Intellipaate's course instructors were excellent and well-versed with their concepts. Support solved all my queries within the promised 24 hours. They explained all topics and concepts well and the course material was updated and included videos, exercises too. I would highly recommend Intellipaate to those who wish to excel in the IT field.



Ashwani Kumar

I like the way Intellipaate is delivering its Tableau training for the self-paced learners. They have ample tutorials that are free, course material, videos, and training stuff to help anybody clear the Tableau certification.



Vishal Pentakota

The best part of this course was the series of hands-on demonstrations that the trainer performed. Not only did he explain each concept theoretically, but he also implemented all those concepts practically. Great job! A must go for beginners.

CONTACT US

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