# TABLEAU SYLLABUS

**Hi Folks,**

Oranium Tech introducing some amazing content on Tableau. We take every step to ensure that it is prepared keeping in mind the industry requirements. We designed the syllabus to suit real world requirements for the beginner level and advanced level.

**Why take this Course?**

Tableau is by far one of the best business intelligence tools available in the market today. After completing the Oranium Tech Tableau reporting training course, you will able to better analyze your business and develop highly insightful information.

- Course Fee: 25k

**Course Curriculum**

| Module /Topic | Hands-on exercises |
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| **Introduction to Data Visualization and Power of Tableau**<br>❖ What is data visualization?<br>❖ Comparison and benefits of reading raw numbers<br>❖ Real usage examples from various business domains<br>❖ Some quick powerful examples using Tableau withoutgoing into the technical details of Tableau<br>❖ Installing Tableau<br>❖ Tableau interface connecting to Data Source<br>❖ Tableau Data Types<br>❖ Data preparation | |
| **Architecture of Tableau**<br>❖ Installation of Tableau Desktop<br>❖ Architecture of Tableau<br>The interface of Tableau (Layout, Toolbars, Data Pane, Analytics Pane etc) | ❖ Play with the tableau desktop<br>❖ Interface to learn its user interface |

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| ❖ How to start with Tableau?<br>❖ Ways to share and exporting the work done in Tableau | ❖ Share an existing work<br>Export an existing work |
| **Working with Metadata & Data Blending**<br>❖ Connection to Excels, PDFs, and Cubes<br>❖ Managing Metadata and Extracts<br>❖ Data Preparation and dealing with NULL values<br>❖ Different types of Data Joins (Inner, Left, Right, Outer)and Union<br>❖ Cross-Database joining<br>❖ Data Blending<br>❖ Data extraction<br>❖ Refresh extraction<br>❖ Incremental extraction<br>❖ How to build extract? | ❖ Connect to an excel sheetand import data<br>❖ Use metadata and extracts<br>❖ Handle NULL values<br>❖ Clean up the data before the actual use<br>❖ Perform various join techniques<br>❖ Perform data blending from more than one sources |
| **Creation of sets**<br>❖ Marks<br>❖ Highlighting<br>❖ Sort and Group<br>❖ Working with Sets (Creation of sets, Editing sets, IN/OUT,Sets in Hierarchies)<br>❖ constant sets, computed Sets, and bins | ❖ Create and edit sets using Marks<br>❖ Highlight desired items<br>❖ Make groups, Applying sorting on the result<br>❖ Make hierarchies in the created set |
| **Working with Filters**<br>❖ Filters (Addition and Removal)<br>❖ Filtering continuous dates, dimensions, measures<br>❖ Interactive Filters, marks card, and hierarchies<br>❖ How to create folders in Tableau?<br>❖ Sorting in Tableau<br>❖ Types of sorting<br>❖ Filtering in Tableau<br>❖ Types of filters<br>❖ Filtering order of operations | ❖ Add Filter on dataset by date/dimensions/measure<br>❖ Use the interactive filter to views<br>❖ Remove some filters to seethe result |

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| **Organizing Data and Visual Analytics**<br><br>❖ Formatting Data (Labels, Annotations, Tooltips, Editaxes)<br>❖ Formatting Pane (Menu, Settings, Font, Alignment, Copy-Paste)<br>❖ Trend and Reference Lines<br>❖ Forecasting<br>❖ k-means Cluster<br>❖ Analysis in Tableau<br>❖ Visual analytics in Tableau<br>❖ Reference lines and bands<br>❖ Confidence interval | ❖ Apply labels, annotations,tooltips to graphs<br>❖ Edit the attributes of axes<br>❖ Set a reference line<br>❖ Do k-means cluster analysison a dataset |
| **Working with Mapping**<br><br>❖ Coordinate points<br>❖ Plotting Longitude and Latitude<br>❖ Editing Unrecognized Locations<br>❖ Custom Geo-coding<br>❖ Polygon Maps<br>❖ WMS: Web Mapping Services<br>❖ Background Image (Add Image, Plot Points on Image,Generate coordinates from Image)<br>❖ Map visualization<br>❖ Custom territories<br>❖ Map Box<br>❖ WMS Map<br>❖ How can we create map projects in Tableau?<br>❖ How to create Dual Access Map?<br>❖ How to edit location? | ❖ Plot latitude and longitudeon geo map<br>❖ Edit locations on the map<br>❖ Create custom geocoding<br>❖ Use images of a map andplot points on it<br>❖ Find coordinates in theimage<br>❖ Create a polygon map<br>❖ Use WMS |
| **Working with Calculations & Expressions**<br><br>❖ Calculation Syntax and Functions in Tableau<br>❖ Types of Calculations (Table, String, Logic, Date, Number,Aggregate)<br>❖ LOD Expressions (concept and syntax)<br>❖ Aggregation and Replication with LOD Expressions<br>❖ Nested LOD Expressions<br>❖ Level of Details<br>❖ Fixed Level of Details | |

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| ❖ Lower Level of Details<br>❖ Higher Level of Details<br>❖ Quick Table Calculations<br>❖ How to create Calculated Fields?<br>❖ Predefined Calculations and how to validate? | |
| **Working with Parameters**<br><br>❖ Create Parameters<br>❖ Parameters in Calculations<br>❖ Using Parameters with Filters<br>❖ Column Selection Parameters<br>❖ Chart Selection Parameters<br>❖ How to use Parameters in Filter Session?<br>❖ How to use parameters in Calculated Fields?<br>❖ How to use parameters in Reference Line? | ❖ Create new parameters to apply on a filter<br>❖ Pass parameters to filters to select columns<br>❖ Pass parameters to filters to select charts |
| **Charts and Graphs**<br><br>❖ Dual Axes Graphs<br>❖ Histogram (Single and Dual Axes)<br>❖ Box Plot<br>❖ Pareto Chart<br>❖ Motion Chart<br>❖ Funnel Chart<br>❖ Waterfall Chart<br>❖ Tree Map<br>❖ Heat Map<br>❖ Market Basket analysis<br>❖ Using Show me<br>❖ Types of Charts<br>❖ Text Table<br>❖ Heat map<br>❖ Highlighted Table<br>❖ Pie Chart<br>❖ Tree map<br>❖ Bar chart<br>❖ Line Chart<br>❖ Bubble Chart<br>❖ Bullet chart<br>❖ Scatter Chart | ❖ Plot a histogram<br>❖ Heat map, tree map, funnel chart and others using the same data set,<br>❖ Do market basket analysis on a given dataset |

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| ❖ Dual Axis Graphs<br>❖ Funnel Charts<br>❖ Pareto Chart<br>❖ Maps<br>❖ Hands-on Lab<br>❖ Assignment<br>❖ Funnel Chart<br>❖ Waterfall | |
| **Dashboards and Stories**<br><br>❖ Build and Format a Dashboard (Size, Views, Objects,Legends, and Filters)<br>❖ Best Practices for Creative and Interactive Dashboardsusing Actions<br>❖ Create Stories (Intro of Story Points, Creating andUpdating Story Points, Adding Visuals in Stories, Annotations with Description).<br>❖ Dashboards & Stories<br>❖ what is Dashboard<br>❖ Filter Actions<br>❖ Highlight Actions<br>❖ URL Actions<br>❖ Selecting & Clearing values<br>❖ Dashboard Examples, Best Practices in CreatingDashboards<br>❖ Tableau Workspace<br>❖ Tableau Interface<br>❖ Tableau Joins<br>❖ Types of Joins<br>❖ Live vs. Extract Connection<br>❖ Tableau Field Types<br>❖ Saving and Publishing Data Source<br>❖ File Types | ❖ Create a dashboard view<br>❖ Include objects, legends, and filters<br>❖ Make the dashboard interactive<br>❖ Create and edit a story with visual effects, annotation, description |
| **Integration of Tableau with R and Hadoop**<br><br>❖ Introduction to R Language<br>❖ Applications and Use Cases of R<br>❖ Deploying R on Tableau Platform<br>❖ Learning R functions in Tableau; Integration with Hadoop | ❖ Deploy R on the tableau<br>❖ Create a line graph using R interface<br>❖ Connect tableau with Hadoop and extract data |

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