JAMES COOK INSTITUTE

WSQ Data Visualization Techniques Using Tableau

Description

Organisations now have access to many sources of digital data. Organisations must cultivate staff with the necessary skills to be able to analyse these data and apply contemporary techniques to create dynamic and interactive visual displays in order to better illustrate and articulate to business stakeholders.

This course sets out the skills and abilities for learners to master the features and functions of Tableau. Learners will be able to understand key concepts and techniques on creating data visualization, create visuals, understand data relationships and generate data for forecasting and trends.

Who is this Course For?

This training is relevant to Executives, Senior Executives and Data Analyst, Managers. This training is relevant to learners who are keen to explore data analytics as a job role.

Course Objectives

By the end of this course, learners will be able to:

- Identify and select the appropriate visualization techniques to convey findings as well as understand interactive visual display for the purpose of illustrating data analysis insights and interpret the results.

- Organize the presentation of the data to reflect business trends and use visualization techniques to show correlations between data sets for the purpose of understanding correlations in data and data trends.

- Incorporate suitable chart elements to create informative and interactive data displays for the purpose of representing the data in the appropriate context by using calculated fields, parameters, or bins.

- Develop basic dashboards using visualization tools and techniques like map, Gantt bar, polygon etc to display benchmark and results achieved to provide insights into business performance for the purpose of applying best practice techniques and suitable visualisation to display data against benchmarks.

- Incorporate interactive graphical visuals and apply technical features into the data dashboard for the purpose of displaying how data interact with each other using features in Tableau.

- Communicate the limitations of data available and interpret the results to provide business insights from the data analysis for the purpose of engaging stakeholders via dashboards.

Course Duration
16 Hours

Course Reference No.
TGS-2022017336
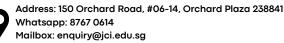
Mode of Training
Classroom

Funding Validity
Till 04 Dec 2026

Full Fee $650
(Subject to 9% GST)

Pricing	Funding	Nett Fee (After GST)
SME OR SINGAPOREAN AGE 40 AND ABOVE	70%	$283.50
NON-SME OR SINGAPOREAN AGE 21 TO 39 OR PR	50%	$353.50

Subsidies available: SFC, SFEC, UTAP & PSEA

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Course Content

Learning Unit 1: What Is Data Visualization and Data Analysis
- Data Visualization
- The Cycle of Analytics
- Data Analysis

Learning Unit 2: Basic Tableau Features
- Connect to Data Source
- Workbooks and Sheets

Learning Unit 3: Measures and Dimensions
- Basic Tableau Features and Types of Visualization
- Starting to Analyse Data
- Adding Dimensions for More Analysis
- Swapping Rows and Columns (Transpose)
- Bar Charts
- Pie Charts
- Line Charts

Learning Unit 4: Transforming Data in Tableau with Dynamic Parameters and Calculated Fields
- Create A Calculation Field
- Table Calculations
- Using Parameters

Learning Unit 5: Creating Dashboards with Advance Visualisation
- KPI Cards
- Create Lollipop Chart

Learning Unit 6: Introducing Interactivity In Dashboards With Parameters And Filtering
- Create Dashboard
- Linking Multiple Data Sources in Tableau
- Create Filled Map and Filter
- Adding Filters and Interactivity into Dashboard
- Applying Colour to A Single Column/ Bar
- Visualisation

Learning Unit 7: Telling A Story Using Dashboards
- Best Practices for Telling Great Stories
- Create A Story