

Enhanced Visual Analysis with Data Visualization Ed 1

Course Duration:8Hours

Course code: Ed 1

1. Course Overview

During this 1-day course, you focus on mastering advanced techniques for creating impactful data visualizations that drive deeper insights and better decision-making. Learn visualization principles, explore various data visualization tools, and apply best practices for design and storytelling with data. You will work with different data types, create interactive dashboards, and integrate advanced chart types to enhance understanding. The course also emphasizes visual analytics workflows, audience-focused design, and performance optimization for large datasets.

2. What you'll learn?

Enhanced Visual Analysis with Data Visualization By the end of the course, you should be able to:

- Describe core principles of data visualization and visual perception
- Select appropriate chart types and visualization methods for different datasets
- Apply design best practices for clarity, accuracy, and engagement
- Build interactive dashboards and reports
- Integrate advanced visual analytics techniques for deeper insight
- Optimize visualizations for performance and scalability
- Communicate data stories effectively to diverse audiences

3. Target Audience

Data analysts, business intelligence professionals, data scientists, and decision-makers who want to improve their ability to create compelling and effective data visualizations.

4. Pre-Requisites

Familiarity with:

- Basic data analysis concepts
- Data visualization tools (e.g., Tableau, Power BI, or equivalent)
- Basic understanding of datasets and data preparation

5. Course content

1. Data Visualization on Oracle Analytics Cloud: Overview

- Oracle Analytics Cloud: Introduction
- Oracle Analytics Cloud: Features
- Oracle Analytics Cloud: Benefits

2. Uploading Data from External Sources

- External Sources: Characteristics
- Adding a Spreadsheet as a Data Source
- Creating Data Sources from Databases
- Creating a Project with an Oracle Application Connection

3. Blending and Managing Data

- Blending Data
- Controlling Sharing of Data
- Managing Data Sources

4. Data Wrangling and Data Flow

- Data Wrangling Functions
- Using Data Flow to Curate Data Sources

5. Adding Data Elements and Visualizing Content

- Adding Data Elements to a Blank Canvas
- Adding Advanced Analytics Functions to Visualizations
- Adjusting Visualization Properties

6. Exploring Data by Using Filters, Drilling, Sorting, and Selecting

- Filters: Overview
- Automatically Applied Filters
- Creating Filters

7. Creating Calculated Data Elements and Building Expressions

- Creating Calculated Data Elements
- Composing Expressions

8. Visualization Interaction and Exploring Data on Mobile Devices

- Synchronization: Overview
- Synchronizing Visualizations

9. Importing, Exporting, and Converting Projects

- Importing an Application or Project
- Exporting a Project as an Application
- Exporting a Visualization, Canvas, or Story

10. Accessing and Organizing Content

- Finding and Exploring Your Content
- Assigning Ownership of Items
- Embedding Your Content in Other Applications

11. Managing Users, Backup, and Restore

- Getting Started with Application Roles
- Assigning Application Roles to Multiple Users Through Roles

12. Project Indexing, Monitoring Users, and Activity Logs

- Managing How Content Is Indexed and Searched
- Scheduling Regular Content Crawls
- Analyzing SQL Queries and Logs

13. Troubleshooting Issues in Projects

- Troubleshooting Data Issues in Projects

