

# Infographics and Data Analytics for Reporting on Oil and Gas

Data analysis, professional reporting style, and the presentation of graphics and images

## Introduction

Many obstacles have been placed on businesses, particularly oil and gas corporations, by the simple access to massive datasets worldwide. These organizations need to use sophisticated data analysis techniques and reporting styles in order to make the best judgments. It is challenging to get your message understood and accepted by those without superior analytical skills in the modern world due to the availability of vast amounts of data and more affordable data storage. After the data is gathered, it is essential to analyse it and present it in a form that the consumer can understand. Put differently, you need to see the data.

Infographics, also known as information graphics, are visually appealing depictions of facts, information, or expertise designed to convey complex ideas succinctly and understandably. Making the data quickly and easily comprehensible is the primary goal.

A combination of graphs and charts are used in infographics to portray data, with the primary idea being conveyed to the viewer through the chart. The knowledge, the information, and the visual are the main components of an infographic.

Infographics are widely used in various industries, and more lately, firms in the oil and gas industry have started using them into their data presentations. The goal of this infographics and data analytics training course for oil and gas reporting is to provide attendees the skills they need to analyse numerical data, report on it, and effectively convey it using visuals.

## **The following will be covered in this Course N Carry Infographics & Data Analytics for Reporting on Oil & Gas training course:**

- What is an infographic, and why are they a useful presenting tool?
- How should an infographic's design be planned?
- How can a concentrated story be told?
- How can data be used to bolster your presentation?
- Making an infographic by skilfully combining charts and graphs
- Putting the data into visual form
- How can I mix and match presentation tools?
- Using several software programs to create infographics

## Objectives

The goal of this training program is to provide analysts and professionals working in oil and gas industries the skills they need to use Tableau Public and other readily accessible software to effectively portray large amounts of data in an infographic. They will improve their ability to transmit facts to other members of the company more effectively by utilizing infographics to display the information.

### **After completing this training course on infographics and data analytics for Reporting on oil and gas, you will understand:**

- Typical infographic-based analysis and representation approaches
- The capacity to identify the kinds of analyses that are most appropriate for oil and gas firms
- Recognize the key elements while creating infographics.
- Discover how to organize the infographic.
- Hone their presentation software abilities
- Discover how to create an infographic.
- Make graphs using the data.
- Incorporate charts and graphs to strengthen the narrative.
- Recognize the ideal approaches for testing and promoting their infographic.

### **Training Methodology**

Using a problem-based learning methodology, this infographics & data analytics for oil and gas reporting training course exposes participants to a number of real-world examples from the oil and gas industry as well as other industries including supply chain, logistics, and quality control.

The majority of the time will be spent by delegates investigating the features of Excel for data analysis and representation, the idea of infographics and how they are used, the Tableau Public app, and other online tools.

### **Organizational impacts**

Attendees of this infographics and data analytics training course for oil and gas reporting will gain fresh perspectives on using Excel and data analysis, as well as an understanding of the importance of data analysis techniques in providing high-quality products and services at competitive prices. They will become more proficient at generating reports and incorporating visuals into the way data is presented.

**The company will have a methodical and efficient way to advertise and showcase its ideas, actions, solutions, and overall messaging that it wants to convey to its stakeholders or clients.**

- Gaining from making the difficult material more understandable and concise
- Teach employees to provide information in an efficient and clear manner.

**Adopt a methodical and planned approach to data analysis and presentation**

- Expose the hidden connection between the examined data
- Boost understanding of the intricate procedures
- Deliver messages to clients and stakeholders that are precise, targeted, and backed by data.
- Ability to differentiate yourself from the throng with your succinct and impactful messaging
- Preserve or enhance their reputation

## Personal Impact

**The skills taught in this infographics and data analytics for Reporting on oil and gas training program allow learners to:**

- Learn to identify the trends in the data.
- Create a presentation that is dominated by images to convey the necessary message.
- Discover how to make a successful infographic.
- Learn how to work on the infographic as a team member or on your own.
- Discover how to integrate several presenting programs.
- Discover how to cut out the extraneous information so that the key information may be highlighted.
- Utilize the constructive criticism to enhance your presentation abilities.

## Who should attend?

The purpose of this training course on infographics and data analytics for oil and gas reporting is to assist people working in the oil and gas industry who handle, depict, understand, and/or analyze data in their daily work. It is expected that you are familiar with computers, namely with Microsoft Excel.

**Delegates to this Course N Carry training course should be numerate and love dealing with numerical data on a computer as the course covers a lot of computer-based data analysis using Excel 2010. Though a wide range of professionals can benefit from this training, the following will be especially noted:**

- Marketing Expert
- Supervisors of Projects
- Public Relations Experts
- Managers of Marketing
- Managers of campaigns
- Managers of Business Development
- Managers of operations participating in the data analysis
- Managers of Finance
- Managers of Risk
- Executives and Non-executives at the Board Level

## Course Outline

# Day 1

## Overview and Qualitative Data

- Data analysis: What Is It?
- A refresher on basic statistics and adjustments for tiny sample sizes
- An Excel Quick-Start Guide
- Using Statistics to Define Data Sets
- Visual Representation of Data Sets
- How to use Excel to produce an infographic
- How Info-graphics Present Data Differently from Conventional Techniques

# Day 2

## Analysis of Time Series and Frequency

- Histograms of Occurrence Frequency
- Pareto Evaluation
- What Sets Excel Dashboard Apart from Infographics
- How to Use Power Point and Excel Together to Create Infographics
- Trend Analysis and Time Series
- The Significance of Estimation Theory in Oil and Gas Data

# Day 3

## Interactive spreadsheets for oil and gas companies that use scenario analysis, confidence, and six sigma modelling

- Intervals of Confidence
- Control Chart Utility for Oil and Gas Companies
- Mistake Bars
- Online Resources for Infographic Design
- Using actual data, creating an infographic in practice

# Day 4

## Analysis of Regression System Modeling and Equations

- Basic Analysis of Regression

- Fits of Polynomial Curves

- Forecast
- Regression's Applications to Oil and Gas Companies
- Variance Analysis (ANOVA)
- Comparing Various Infographic Types

## Day 5

### The Design and Evaluation of Infographics

- Presenting Information with the Proper Reporting Style and Practice Developing the Infographics and Their Display
- Pay Attention to the Narration
- Review of Learned Concepts Overall and How to Use Them in Practice