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RESOURCES

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CONTENT

ANALYTICAL THINKING AND DATA ANALYSIS FOR ORGANIZATIONAL DEVELOPMENT

COURSE OVERVIEW

A plethora of Data exists. Data is generated every millisecond from human interaction with the internet, human interaction with businesses and even human interaction with other humans. Herein these data lies key insights that possess the ability to impact value drivers at the planning and measurement stages of solving operational/business problems of an organization.

For example, data analytics enables the detection of individual customer needs to make more sales per customer, calculate return on investment made in implementing productivity changes and assess compliance risk and costs for planned strategy. As the dynamism of the economy increases, organizations need to be faster and more sophisticated in their decision-making capabilities. Therefore, they need sufficient statistical skills to intelligently gather, analyze, interprete and utilize data to drive and back-up those decisions.

The Statistical Thinking and Data Analysis for Organizational Development programme is a highly sought after and is structured to equip delegates with skills required to effectively analyze data and approach problem solving with valuable insights obtained from data. Delegates will discover how to improve organizational processes through statistically analyzing past, and current data sets to understand intricacies of the challenges faced by their organizations, and then gain the quantitative skills needed to draw conclusions from data sets that drive better informed decision-making within their organization.

No prior knowledge of statistics is required to attend this course.

PROGRAMME OBJECTIVES

On completion of this course, delegates will gain an understanding on:

- How statistical thinking and data analysis can improve business outcomes and oganizational efficiencies
- How to create statistical models to support decision-making
- Fundamental principles of quantitative data analysis
- Paths to formulating research questions for improved results

PROGRAMME CONTENT

Module 1:
Introduction to Data Analytics

- What is Data Analytics
- The Value delivered by Data Analytics
- Tools and Techniques for Data Analytics
- Types of Data most useful for organizational development and how to use them

Module 2:
Statistical Thinking and Strategic Analysis

- What is Statistical Thinking and Examples
- Numerical Data, Summary Statistics
- Different Types of Biases
- Introduction to Probability
- Introduction to Statistical Inference

Module 3:
Data Visualization and Presentation

- Introduction to visualization
- Goals of statistical graphics and data visualization
- Graphs of Data
- Graphs of Fitted Models
- Graphs to Check Fitted Models
- Principles of graphics
- Microsoft Excel for data visualization
- Microsoft PowerPoint for data visualization
- Other data presentation tools

PROGRAMME DYNAMICS

Target Audience

- Senior Executives (Assistant Directors – Directors)
- Middle Level Managers, Unit Heads, Department Heads

Programme Format

- Customized for your institution
- Practical, Hands-on Learning
- Real-World Cases

	■ Residential (where possible for senior executives)
Duration	■ 5 Days for each stream
Class Size	■ 30 in each stream
Location	■ Offsite Location or In-Premises (To be discussed)