MEASUREMENT (INTERMEDIATE)

Going Beyond Basics in Measurement for Healthcare

The Measurement (Intermediate) course is a continuation of the Measurement (Basic) course and provides healthcare practitioners with a robust and comprehensive approach to the use of data and statistical methods to make informed decisions.

This course aims to elevate participants' knowledge and skills, from a mere understanding of numbers and simple charts to appropriate analysis and application of both qualitative and quantitative data. Participants will learn how to analyse data, understand the implications of values, trends and variation, and apply systems level thinking for performance assessment.

The key features and topics of this course include the following with their respective learning objectives. (All modules include interesting activities and hands on sessions for better understanding of the subject matter)

LEARNING OBJECTIVES

At the end of the programme, participants will learn:

1. **Revisiting Basics**
- Revise basics of why measure, what to measure, how to use measure, how to analyse and report data, use of simple charts such as run charts

2. **Reliability, Validity and Accuracy of Data**
- Learn and understand how to ensure data accuracy, reliability, validity and consistency by using scientific methods.

3. **Concepts and Measures of Variation- Spread/Disperson**
- Apply concepts, use and application of analytic tools to understand measures of spread/dispersion: e.g. Range, Inter-quartile Range, Standard Deviation etc.
- Understand the principles of confidence levels / intervals and commonly used tests of significance

LEARNING OBJECTIVES

Continued from above:

4. <u>Statistical Process Control Charts and Its Use</u>
- Understand how to diagnose and manage variation, revisit common cause and special cause variation.
- Develop knowledge and skills on depicting variation using commonly used statistical process control (SPC) charts.
- Know and understand different types of SPC charts for different data types and other , other charts and graphs to study variation.

5. <u>Benchmarking and Its Role in Healthcare</u>
- Understand the role of benchmarking in healthcare, its definition, how and when to use different types of benchmarking
- Understand how to select an appropriate source of benchmarking comparative data and how to apply a step-by-step process for benchmarking

6. <u>Using Qualitative Data in Healthcare</u>
- Understand how and when to use qualitative data, methods of collecting and measuring qualitative data
- Understand how to develop and use surveys and questionnaires for collecting qualitative data and its analysis and reporting.

7. <u>Performance Measurement at Systems Level</u>
- Learn and understand system performance measures
- Learn how to create metrices, scoring systems
- Learn and understand how to use the Clinical Value Compass, develop Balanced Score Cards (BSC) and Dashboards, including its benefits, differences
- Learn how to improve system performance using Driver Diagrams and its linked measurement indicators

Target Audience

- Doctors, Nurses and Allied Health Professionals
- Administrators (Interested in measurement in healthcare)
- Quality Management Professionals

Pre-requisites

Participants must have completed the Measurement (Basic) course.

Course Duration

1 day

Scan the QR code for more information