

CODE: Q1603

BASIC STATISTICS

INTRODUCTION

This course expresses statistical thinking concepts that are essential for learning from data and communicating insights. By the end of the course, you will be able to perform exploratory data analysis, understand key principles of sampling, and select appropriate tests. This course helps aspiring participants to understand how statistics helps to continual improve organisational management system using its best practice. Participants learn the details of each clauses of the standard requirement to be able to apply within their organization.

OBJECTIVE

- To describe the concept overview of quality control plan.
- To provide knowledge on statistics and describe how it is applied.
- To explain the importance of this tool in quality management system.
- To build awareness and encourage continual improvement within organization.

CONTENT

• Session 1: Introduction

Describe overview of statistics. Provide understanding of the important in product development and operation process.

• Session 2: Terms and Definitions

Describe relevant terms and definitions that normally use improvement in the quality, statistics and related fields.

• Session 3: Fundamental of statistics

Describe definition of probability and the essential rules of probability that you will need for solving both simple and complex challenges.

Describe normal approximation for data, a technique that is used in many statistical procedures. Binomial distribution and the basics of random variables.

• Session 4: Sampling distributions and central limits

Describe the data distribution and the Central Limits. Explain how to differentiate between the different types of histograms present in statistical analysis.

PREREQUISITES

Basic knowledge in quality system is more useful. Experience in any industry will be more benefit.



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