



Sampling and Testing Procedures

Course Introduction:

This course is designed to provide participants with a comprehensive understanding of the principles, methodologies, and best practices involved in sampling and testing.

Throughout the course, participants will explore the various types of sampling methods, including random, systematic, and stratified sampling, and their applications across different industries. They will learn about the importance of proper sample handling, preparation, and preservation to maintain sample integrity. Additionally, the course will cover testing methodologies, data interpretation, and the significance of adhering to industry standards and regulations. By examining case studies and best practices, attendees will be equipped with the knowledge necessary to implement effective sampling and testing procedures in their respective fields.

Course Objectives:

By the end of the program, participants will be able to:

- Understand the fundamental concepts of sampling and testing procedures.
- Learn about different sampling methods and their appropriate applications.
- Explore sample handling, preparation, and preservation techniques.
- Analyze various testing methodologies and their significance.
- Familiarize participants with industry standards and best practices in sampling and testing.

International Centre For Training & Development

Who Should Attend?

This course is intended for Quality assurance and control personnel, Process engineers and scientists involved in product development, Regulatory affairs specialists and Laboratory technicians and analysts.

Course Outline:

Day 1: Introduction to Sampling and Testing

- Overview of the importance of sampling and testing in various industries
- Key objectives and benefits of effective sampling and testing procedures
- Regulatory requirements and guidelines for sampling and testing

Day 2: Sampling Methods and Techniques

- Overview of different sampling methods: random, systematic, stratified, and others
- Criteria for selecting appropriate sampling techniques
- Best practices for designing a sampling plan

Day 3: Sample Handling and Preparation

- Importance of sample integrity: handling, storage, and transport
- Techniques for sample preparation: homogenization, dilution, and filtration
- Preservation methods to maintain sample quality before testing

Day 4: Testing Methodologies

- Overview of common testing methodologies: chemical, physical, and microbiological tests
- Analytical techniques: chromatography, spectroscopy, and titration
- Data interpretation and reporting results

Day 5: Industry Standards and Best Practices

- Review of relevant industry standards for sampling and testing
- Best practices for managing sampling and testing processes
- Future trends and challenges in sampling and testing methodologies

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work

Course Fees:

To be advice as per course location. This rate includes participant's manual, Hands-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session