

HDTC Training Center

Provide

Technical proposal of the Training program

Quality Control in Production Lines

Introduction

This program provides participants with essential knowledge and practical techniques for maintaining and improving quality standards throughout production line operations.

It focuses on ensuring consistency, reducing defects, and enhancing product compliance with operational and customer requirements.

Program Objectives:

General Objective:

Enable participants to understand and apply quality control principles and practices to maintain product consistency, reduce defects, and improve efficiency across production lines.

Key Learning Objectives:

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

- Understand the fundamentals of quality control in manufacturing operations
- Recognize the importance of maintaining consistent production quality
- Identify common quality issues in production lines
- Apply inspection and testing methods to monitor product quality
- Use quality control tools to detect and prevent defects
- Contribute to continuous quality improvement initiatives.

Program Outlines:

★ Module 1: Introduction to Quality Control

- Definition and importance of quality control
- Quality standards in manufacturing environments
- Role of quality control in operational success

★ Module 2: Quality Inspection and Monitoring

- Inspection methods and checkpoints
- Sampling and testing procedures
- Monitoring production parameters

★ Module 3: Common Quality Defects and Root Causes

- Identifying production defects
- Root cause analysis of quality issues
- Corrective and preventive actions

★ Module 4: Quality Control Tools and Techniques

- Checklists and inspection sheets
- Pareto Analysis
- Cause-and-Effect Diagrams
- Statistical Process Control Basics

★ ◆ Module 5: Continuous Improvement in Quality Management

- Maintaining quality consistency
- Reporting and documentation practices
- Supporting a culture of quality excellence

Target Audience:

- ✓ Production line operators
- ✓ Quality control inspectors
- ✓ Production supervisors
- ✓ Plant technicians and engineers
- ✓ Operations and manufacturing staff

Training Methodology:

- ✓ Technology-based learning.
- ✓ Simulation in Training.
- ✓ Trainer-Led Training.
- ✓ Work Teams and Roles.
- ✓ Films and Videos.
- ✓ Case Studies and Workshops.