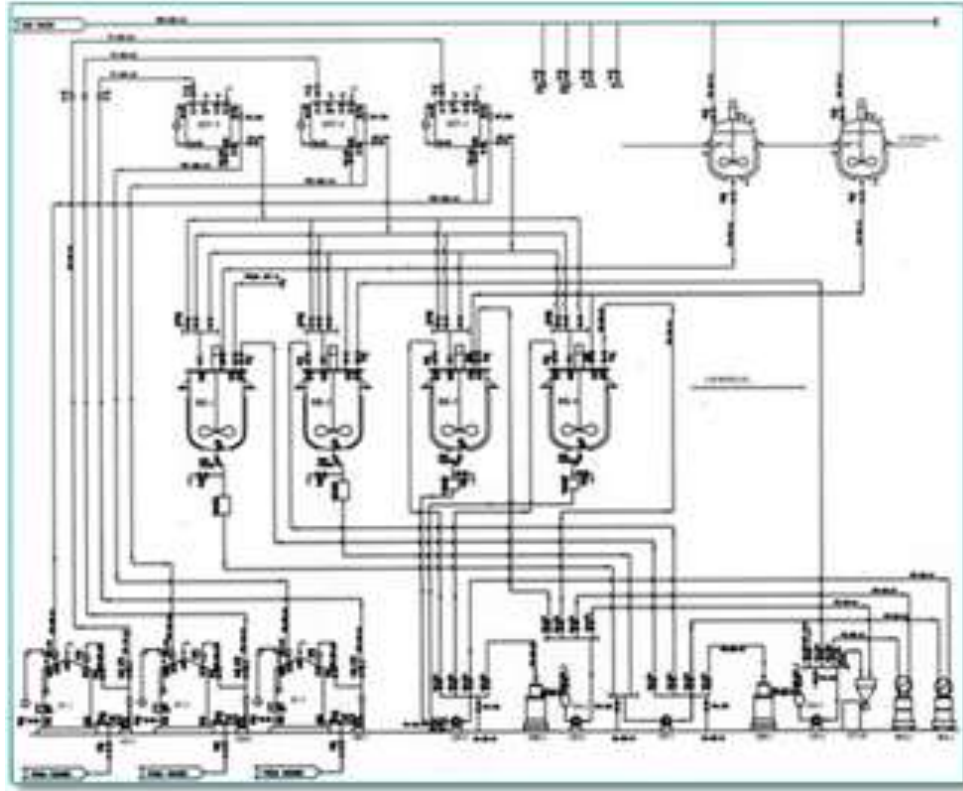




ELECTRICAL Control and Drawings

Course Introduction:

The course presents a systematic approach to the basics of electrical control. It first adopts a general approach to the main control elements, the method of primary control. Then it explains what is meant by open loop and closed loop systems... PLC construction, operation, different types, and its use in different electrical utilities are presented with many applications. The power Circuit drawings and its associated control circuit drawings will be deeply involved in this course with some applications in industry.

Course Objectives:

By the end of the course, participant will be able to:

- Understand the basic electrical control and its applications.
- Understand PLCs and its application in electrical utilities and different aspects of industry.
- Know how to reinstall simple control circuits.
- Know most of the electrical and mechanical drawings in most of their work sheets and maps.

Who Should Attend?

Electrical technicians, field engineers, project managers, inspectors, contractors, and journeyman electricians who depend on effective skills and knowledge required in this ever changing fast pace electrically driven environment.

Course Outline:

Introduction

- Definition of control
- Control elements
- Control systems
- Units, Standards, and definitions

Analog Controllers

- Analog signal conditioning
- Valves and actuators
- Closed loop and open loop control
- Control elements

Digital control

- Data acquisition systems

- Data loggers
- Supervisory computer control
- Control Rooms

PLC

- PLCs construction
- PLCs Functions
- PLCs Circuits
- PLCs Operation and maintenance

Electrical Drawings

- Electrical and Control symbols
- Drawing Charts
- Computer graphics

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
- Discussion
- Presentation

Course Certificate:

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

Course Fees:

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

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

