

Course Overview:

Rapid progress in power plants and utilities leads to a parallel needs in distributed control actions in different sites and environments.

Advanced control systems have created the world's most advanced distribution automation suite, including designing, planning, management, and automatic feeder restoration.

This course ranges from revision of power utilities needs for local and remote measurements and control for different sites, to the advanced robot manipulation and rapid action execution

Course Objective:

To describe the principles behind the basics of selection, construction and operation of process control equipment.

Course Outline:

- INSTRUMENTATION EQUIPMENT
- INTRODUCTION TO ELECTRICAL CIRCUITS
- ELECTRICAL COMPONENTS, STANDARDS AND SYMBOLS
- FUNCTIONS OF INDUSTRIAL SWITCHGEAR
- FLOW MEASUREMENT
- LEVEL MEASUREMENT
- TEMPERATURE MEASUREMENT
- CONTROL
 - Introduction
 - Basic control principles
 - On/off control
 - Basic proportional control
 - Reset of integral action
 - Rate or derivative action
 - Multiple control modes
 - Typical negative feedback control schemes

Who Should Attend:

Electrical and mechanical engineers and technicians

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation

Venue | Date | Fees

Riyadh | 03-12-2023 | 10,350 SAR