

Course Overview:

This highly advanced course is intended for all operators and technicians involved in operation and maintenance, advanced process control and Energy efficiency, and those are responsible for advanced and professional mechanical, electrical, process control, operation in different advanced aspects of mechanical maintenance or electrical procedures, also the sustainability for operators will provide Tools to help operators respond to climate change, resource constraints and build resilience.

Course Objective:

- This advanced training courses intended for all experienced operators and technicians involved in
- operation, process control, Energy efficiency and maintenance, and those are responsible for special
- mechanical, electrical management for maintenance, operation in different advanced aspects of
- mechanical maintenance or electrical procedures, and persons who are interested to work plant area
- The Sustainability for operators will enable you to advance the career and develop their professional skills.
- Identify the business risks and problems facing your organisation because of unsustainable practices
- Know which tools and management systems can help improve sustainability

Course Outline:

Sustainability

1. What is sustainability
2. Sustainability vision and mission
3. Need of sustainability in a company
4. Sustainability organization & responsibility
5. Sustainability Reporting both internal & external

Advanced Process Control (APC)

1. What is APC and the evolution of process control technology
 2. Regulatory control system
- Basis regulatory control
- Advance regulatory control
3. The technologies of advance process control system
- Multivariable control
- Model predictive control
4. How advance process control system works
 5. Advantage and disadvantage of using APC
 6. Connectivity with DCS
 7. Line up, optimization and shut down process.

Energy

1. Introduction
2. Different source of energy
3. Energy efficiency
4. Energy Unit and calculation
5. Energy Benchmarking
6. Energy Conservation In Thermal Systems (Chillers & Boilers)

ISO 50001 – ENERGY MANAGEMENT STANDARD

Who Should Attend:

Training Language:

EN / AR

Training Methodology:

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

-This course is designed for operators Professionals, technicians , maintenance operators