

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:

Sustainability1. What is sustainability2. Sustainability vision and mission3. Need of sustainability in a company4. SHARQ sustainability journey5. Sustainability Goal of SABIC and SHARQ6. Sustainability organization & responsibility7. Sustainability Reporting both internal & external8. Sustainability internal and external Target & KPI9. Sustainability Performance10. Sustainability Foot print11. Sustainability Projects12. Best practices of sustainability13. Tips to reduce sustainability parameters14. Sustainability recognition & awards
APC1. What is APC and the evolution of process control technology2. 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 works5. Advantage and disadvantage of using APC6. Connectivity with DCS7. Line up, optimization and shut down process.
Energy1. Introduction2. Different source of energy3. Energy efficiency4. Energy Unit and calculation5. Energy Benchmarking6. Energy economic analysis7. Energy audit8. Electric traffic9. Alternative energies10. Energy conservation11. Best practices for energy savings

Who Should Attend:

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

Training Language:

EN / AR

Training Methodology:

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