

➤ **Energy Efficiency and Management in Industry**

Course outlines

- ✓ Fundamentals of Energy Management
 - Concepts of Energy Efficiency & Management
 - Energy Units and Calculations
 - Energy Benchmarking
 - Engineering Economic Analysis
 - Energy Auditing
 - Energy Performance Models
 - Electricity Tariffs
- ✓ Energy Conservation in Electrical Systems
 - Introduction to Electrical Systems
 - Power Factor Upgrade
 - Power Quality Issues and Harmonics
 - Energy Conservation Opportunities in Motors
 - Variable Speed Drives
 - Energy Conservation Opportunities in Lighting Systems
- ✓ Energy Conservation in Thermal Systems
 - Introduction to Boilers
 - Combustion Reactions and Stoichiometry
 - Energy Conservation Opportunities in Boilers & Steam Networks
 - Introduction to Cooling Equipment and Chillers
 - Energy Conservation Opportunities in Chilled Water Systems
 - Thermal Energy Storage
- ✓ Energy Conservation in Compressors, Pumps, Heat Recovery & CHP
 - Introduction to Compressors and Compressed Air Systems
 - Energy Conservation Opportunities in Compressors
 - Introduction to Pumps
 - Energy Conservation Opportunities in Pumps
 - Waste Heat Recovery Opportunities
 - Cogeneration Options
- ✓ Energy Management System ISO 50001
 - Introduction to ISO 50001
 - Benefits of ISO 50001
 - ISO 50001 Approach & Methodology
 - Requirements of Energy Management System (EnMS)
 - Energy Policy & Energy Planning
 - Implementation & Operation of EnMS

