## Course Overview:

This course will provide an overview of the tools and techniques required for designing systems that are safer, more secure and easier to use through a series of lectures and workshops.

## Course Objective:

- Explain and apply human factors engineering concepts in both evaluation of existing systems and design of new systems.
- Specify designs that avoid occupation related injuries.
- Define and apply the principles of work design, motion economy, and work environment design.
- Identify the basic human sensory, cognitive, and physical capabilities and limitations with respect to human-machine system performance.
- Acknowledge the impact of workplace design and environment on productivity.
- Understand professional and ethical responsibility

## Course Outline:

- Human errors in the work environment and how to reduce it
- Human Error Accident Reduction
- Human Factors in Automation
- Corporate Culture
- Engineering a Safety Culture
- Threat and Error Management
- Fatigue and Alertness Management
- Communications
- Workload Management,Capacity and human efficiency
- The forces acting on the human body
- Monitoring and Cross-checking
- Situational Awareness
- Potential occupational diseases at work and methods of prevention
- Work environment in terms of safety and lighting, noise and methods of evaluation.

## Who Should Attend:

- Individuals who have responsibilities for assessing and controlling an organisation's potential workplace and work task risks
- Production, process, maintenance, health, safety and environment personnel

## Training Language:

EN / AR

## Training Methodology:

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