

Module Title: Environmental, Health and Safety Management

Elective Module

Content:

1. Environmental, Quality and Health & Safety Management Systems

- Introduction to environmental management systems.
- Integration of environmental regulation with EMS systems.
- Introduction to Health & Safety Management Systems and Quality Assurance principles
- OHSAS 18001, ISO 14001, 9001.
- Audit Techniques
- Performance indicators, inspections, benchmarking and continuous improvement.
- Integrating ISO14000, 9000 and 18000 in businesses.
- Implementation methodologies for Environmental, and health and safety systems with case studies.

2. Safety and Risk Management

- Introduction to concept and theories of Risk,
- Hazard Analysis,
- Risk Analysis and Control
- Risk Assessment Techniques,
- Models for Risk Management,
- Human Factors,
- Cost benefit analysis,
- Accident investigation, Accident Reporting,
- Root cause analysis, Preventative reoccurrence.

3. Legal Studies

- Environmental, Health and Safety legal framework, application and compliance.
- Case law.
- Responsibilities and duties.
- Training and competency.

4. Occupational, Construction and Environmental Hazards

- Designing for: Safety
- Designing to prevent pollution and reduce waste through process design,
- Construction, chemical, health, physical and ecological hazards and management,
- Hazardous Waste,
- Physical Hazards
- Psychosocial Hazards