



HSE185

Environmental Clean Air Act and Water Safety Plan

Course Introduction:

The Clean Air Act initially aimed at dirty air that plagued many cities. The law added provisions about the effects of sources of pollution. The law established quantity limits for the release of common industrial air contaminants. Amendments required stricter control over 189 air toxins based on 350 different categories. Participants leave this course with the most updated information available for the clean air regulations they have to face. Water Safety Plan takes an effective process control rather than end product control in water system as the principal means of ensuring water safety. Control of risks through preventive operation and maintenance with simple and consistent monitoring that allow problems to be detected early and for remedial action to be taken immediately. Therefore, WSP needs to be implemented in all water systems for ensuring safe water delivery and thus to reduce incidence of water borne diseases.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Recognize the requirements of the Clean Air Act and the regulatory authority of the EPA
- Determine the major EPA regulations concerning air, water and soil pollution
- Understand the hazards that causes water unsafe
- Identify control measures existing or planned that prevents hazards to ingress into the system and to control the process through operational monitoring
- Assess sanitary and microbial risk of the water supply system through carrying out sanitary survey
- Enhance the knowledge and skills of the professionals for better management of both asset and safety of the water supply system

Who Should Attend?

This course is intended for environmental professionals who are responsible for the proper implementation and monitoring of their facilities/site compliance with the requirements of the Clean Air Act.

Course Outline:

Day 1:

Pre-Test

Clean Air Act and Air Pollution

- Mobile sources of air pollution
- Hazardous air pollutants
- Acid rain
- Stationary source operating permits

Day 2:

Clean Air Act and Air Pollution (cont'd)

- Provisions regarding enforcement
- Miscellaneous provisions
- Clean air research

Day 3:

Indoor Air Quality (IAQ)

- Indoor Air Quality problems
- Describe how to arrange for or conduct IAQ investigations
- Identify indoor air pollution sources
- Develop solutions to improve the working environment

Day 4:

Drinking Water Safety Plan (WSP)

- Water Quality standards and Health Based Targets
- Introduction to WSP
- Preparation for WSP implementation
- Risk analysis and risk prioritization

Day 5:

Drinking Water Safety Plan (WSP) (cont'd)

- Critical control points and critical limits
- Operational monitoring and control measure
- Corrective action and supporting program
- Sanitary survey for risk assessment

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per the course location. This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session