



## Spill Control and Remediation Engineering - SCRE

### COURSE

#### About the Course

The first part of this course reviews the basics of spill control response principles, organization, procedures, and equipment used. Attendees will be introduced to evaluation of spills, organization of response and communications, surveillance and tracking, data records and information. The second part of this course will review the basics of remediation engineering applicable to property contaminated by crude and hydrocarbons. It will review the various technologies to treat spill-contaminated waters and soils. The course will finish with a review of solids handling for permanent disposal.

#### Target Audience

Operators and field managers, pipeline operators, loading and unloading personnel, and those involved with crude and hydrocarbon transportation. It will also benefit personnel involved in treatment of contaminated property or hard-to-dispose contaminated wastes. This course will be useful to managers in completion and optimization of operations. The course is an important reference parameter for safety situations where there might be involvement of governmental or civil protection.

#### You Will Learn

On Spill Control:

- To understand and analyze spill causes and most common situations
- Factors to consider when faced with a spill situation
- Priorities in the three-tiered response consideration, personnel requirements
- Equipment to control spills, basic principles and design, applicability of technologies
- Personnel risks and protective equipment
- Environmental effects and information to all at stake (Government, Municipal-Regional or other authority, Health and Safety)
- Investigation of root causes, decontamination of equipment and waste management

On Remediation Engineering:

- To detect contaminated land, migration phenomena, phase distribution
- To assess hydrocarbon's biodegradability, use gas chromatography and UV light properties
- Technology of air sparging biodegradation, in-situ soil vapor extraction remediation
- Ex-situ soil washing, bioremediation and phytoremediation advantages

- Bioremediation of metal contaminated soils
- Composting and vermiculture
- Electro kinetics, stabilization and solidification for final disposal

## Course Content

- Spill causes, detection, response and communication derived from the incident
- Equipment used to control spills, HSE Emergency Spill Response
- Contaminated land remediation technologies
- Bioremediation, phytoremediation, composting, and permanent solidification and disposal

## Product Details

Categories: Health, Safety, & Environment

Disciplines: Health, Safety, Environment Multi-Discipline Training

Levels: Foundation

Product Type: Course

Formats Available: In-Classroom

Instructors: PetroSkills Specialist