

# Environmental Control Technology (ECT)

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## Table of Contents:

- Introduction
- Objectives
- Who should attend?
- Course Outline



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## Introduction:

Environmental technology is important to take a few moments to remember how we became so involved with this substance, oil. Regardless of our opinions about its use, oil is, and has been, the key resource in the twentieth century. From humble beginnings as a medicine and a lamp oil, oil has become the energy of choice for transport and many other applications, and the feedstock for a major class of the material used today, plastic.

Environmental technology is all the conditions, circumstances and influences surrounding and affecting the development of an organism or group of organisms. Environmental technology is the scientific study or the application of methods that will enable us to understand and handle problems which influence our surroundings, the surroundings around oil industry facilities and where oil products are used. Traditionally the phrase has meant the application of additional treatment processes added on to industrial processes to treat air, water and waste before discharge to the environment. Increasingly the phrase has a new meaning where the concept is to create cleaner process technology and move towards sustainability.

## Objectives:

By the end of this BTS training course, participants will be able to:

- Learn about environmental control technology overview
- Know about ECT processes
- Oilfield Processes with respect to environmental control technology
- Minimizing waste and environmental management and protection

## Who should attend?

State Authorities, Construction, Production and drilling Engineers, Local Government, Consultants, New Graduates, Technicians, EH&S personnel and advisors.

## Course Outline:

### Introduction

- Environmental technology Overview
- The environmental effects of the oil industry
- Technology used in the oil industry
- Oil Industry future: design for the environment


## **Environmental Control Technology for Oilfield Processes**

- Environmental control technology
- Evolution of environmentally controlled oilfield processes
- ECT analysis of drilling process

## **Environmental Control of Drilling Fluids and Produced Water**

- Control of drilling fluid volume
- Control of drilling fluid toxicity
- Control of produced water volume
- Control of produced water pollutants

## **Drilling and Production Discharges in the Marine Environment**

- Nature of offshore discharges
  - Potential impacts on the environment
  - Regulatory approaches
  - Sources of data on discharges to the marine environment.
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### **Environmental Management and Technology**

- Control of atmospheric emissions
- Control of aqueous emissions
- Soil and groundwater protection
- Control of solid wastes
- Recycling to minimize waste