NPTEL Video Course - Ocean Engineering - Health,Safety and Environmental Management in Petroleum and Offshore Engineering

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable │ MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction and Terminologies
Lecture 2 - Introduction to HSE
Lecture 3 - Safety assurance and assessment
Lecture 4 - Safety assurance and assessment (Continued...)
Lecture 5 - Safety in design and operations
Lecture 6 - Organizing for safety
Lecture 7 - Hazard classification and assessment, Hazard evaluation and hazard control
Lecture 8 - HaZOP
Lecture 9 - HaZOP (Continued...)
Lecture 10 - Hazard evaluation and hazard control
Lecture 11 - Hazard Identification and Management in Oil & Gas Industry using HAZOP
Lecture 12 - FMEA
Lecture 13 - FMEA (Continued...)
Lecture 14 - Environmental Issues and Management
Lecture 15 - Impact of Oil and Gas Industry on Marine Environment
Lecture 16 - Oil Hydrocarbon in Marine Environment
Lecture 17 - Chemicals and Wastes from Offshore and Oil Industry
Lecture 18 - Dispersion Models â Atmospheric Pollution
Lecture 19 - Atmospheric Pollution (Continued...)
Lecture 20 - Hazard Assessment and Accident Scenario
Lecture 21 - Dose Assessment, Safety Regulation
Lecture 22 - Toxic Release and Dispersion Modeling
Lecture 23 - Chemical Exposure Index (CEI)
Lecture 24 - Chemical Exposure Index (Continued.)
Lecture 25 - Quantitative Risk Assessment
Lecture 26 - Quantitative Risk Assessment (Liquid Release Models Case Study - Continued...)
Lecture 27 - Fire and Explosion Modeling
Lecture 28 - Fire and Explosion Modeling Flammability Diagrams

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Lecture 29 - Explosion Modeling
Lecture 30 - Fire and Explosion Preventive Measures
Lecture 31 - Probabilistic Risk Analysis
Lecture 32 - Safety Measures in Design and Process Operations
Lecture 33 - Case Studies
Lecture 34 - Case Studies (Continued...)
Lecture 35 - Software Used in HSE â   an Over View
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