

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Management - NOC:Industrial Safety Engineering

Subject Co-ordinator - Prof. Jhareswar Maiti

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Industrial Safety Engineering
- Lecture 2 - Key concepts and terminologies
- Lecture 3 - Key concepts and terminologies-Safety domain ontology
- Lecture 4 - Key concepts and terminologies-Risk Assessment and Control
- Lecture 5 - Safety Engineering and Accident causing mechanisms
- Lecture 6 - Preliminary Hazard List
- Lecture 7 - Preliminary Hazard Analysis
- Lecture 8 - Hazard and operability study (HAZOP)
- Lecture 9 - Failure Modes and Effects Analysis (FMEA)- Identification of Failure Modes
- Lecture 10 - Failure Modes and Effects Analysis (FMEA) (Continued...)
- Lecture 11 - Application of Hazard Identification Techniques
- Lecture 12 - Fault Tree Analysis (FTA) - Construction
- Lecture 13 - Fault Tree Analysis (FTA) - Gate by Gate method
- Lecture 14 - Fault Tree Analysis (FTA) - Cut-set method
- Lecture 15 - Fault Tree Analysis (FTA) - Importance measures
- Lecture 16 - Event Tree Analysis (ETA)
- Lecture 17 - Bowtie Tool
- Lecture 18 - Bow-tie
- Lecture 19 - Bow-tie
- Lecture 20 - Bow-tie
- Lecture 21 - Bow-tie
- Lecture 22 - Risk Assessment
- Lecture 23 - Consequence Assessment
- Lecture 24 - Energy Control Model and Hazard Control Hierarchy
- Lecture 25 - Safety Function Deployment
- Lecture 26 - Ranking of Design Solutions
- Lecture 27 - Quantification of Basic Events for Non-repairable Components
- Lecture 28 - Quantification of Basic Events
- Lecture 29 - Quantification of Basic Events

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- Lecture 30 - Quantification of Basic Events
- Lecture 31 - Quantification of Basic Events
- Lecture 32 - Quantification of Basic Events
- Lecture 33 - Quantification of Basic Events
- Lecture 34 - Computation of combined process parameters
- Lecture 35 - Computation of combined process parameters
- Lecture 36 - Quantification of Systems Safety and Reliability Block Diagram
- Lecture 37 - Systems Safety Quantification
- Lecture 38 - Systems Safety Quantification
- Lecture 39 - Systems Safety Quantification
- Lecture 40 - Systems Safety Quantification
- Lecture 41 - Human Error, Classification and Causes
- Lecture 42 - Human Error, Classification and Causes (Continued...)
- Lecture 43 - Human Error Identification
- Lecture 44 - Human Reliability Assessment
- Lecture 45 - Human Error Quantification from Expertsâ opinions â Fuzzy Set Approach
- Lecture 46 - Accident Investigation
- Lecture 47 - Accident Investigation and Analysis
- Lecture 48 - Control Chart Analysis
- Lecture 49 - Accident Data Analysis
- Lecture 50 - Accident Data Analysis
- Lecture 51 - Occupational Health and Safety Management Systems(OH&SMS) and OHSAS 18001 - Part I
- Lecture 52 - Occupational Health and Safety Management Systems(OH&SMS) and OHSAS 18001 - Part II
- Lecture 53 - Occupational Health and Safety Management Systems(OH&SMS) and OHSAS 18001 - Part III
- Lecture 54 - Safety Performance Indicators - Part I
- Lecture 55 - Safety Performance Indicators - Part II
- Lecture 56 - Energy Isolations
- Lecture 57 - Virtual Reality - Introduction
- Lecture 58 - Geometry of virtual world
- Lecture 59 - VR roadmap - A case study
- Lecture 60 - Summary