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Reliability Engineering Training Course for Beginners by Online Distance Education

Module 3 content Sample Slides

Introduction

Plant Reliability Management Course Program

MODULE 1	MODULE 2	MODULE 3
Reliability Engineering D. Swain Causes of Plant and Component Failure Reliability Theory of Failure Patterns Data to Determine Component Reliability and Maintenance Costs Reliability and Risk	TRC's and RC Maintenance Strategy Energy Cost Optimization and Cost Case Analysis RC Performance Indicators and Benchmarking Human Error System Reliability Modeling	Proactive Reliability Prediction Case Studies Case Case Analysis Implementing Reliability Improvement Project

Reliability Basics Applying Task Implementation

Your experience - In these topics

1

Human & Organisational

Human and Organisational Issues

Objectives: To describe how to present Human and Organisational Issues being the Root Cause of Problems

Change Control - Compliance

Difficulties to Overcome

2

Defect Elimination

What does it mean?

- Proactive Reliability
- Lack of Knowledge
- Not open for peer-reviewing
- High Risk Incidents
- High Risk Incidents
- High Risk Incidents

3

Making a Commitment

In 1983 the United States led a Submarine

125 lives were lost

and sabotage by USSR spy

and sabotage by USSR spy

4

Why is Maintenance Hard to do Well?

5

Mindfulness

6

High Reliability Organisations (with Mindfulness)

7

Other Points to consider include later/elsewhere

8

The Story in Human Error Rate Tables

9

Unreliability of Human Dependent Processes

10

Machines Suffer High Failure Risk from Human Contact

11

Reliability of Human Dependent Processes

12

Human Factors – the limitations of People

13

12 Most Common Causes for Human Errors

14

Put on your "Human Factors Spectacles"

15

Human Factors – the limitations of People

16

People Failures

17

Likelihood of Human Error

18

Education, Training & Motivation

19

Management of Change

20

People & Organisational Structures

21

8M Support Structure

22