

CREATION OF HIGH PERFORMANCE WORKING TEAMS IN AREAS OF MAINTENANCE AND RELIABILITY

Operational objectives:

- *Determine the most appropriate methodology for establishing a matrix of criticality and risk*
- *Ability to analyze the root causes of failure of unwanted events*
- *Ability to analyze and promote changes in the frequency of Maintenance*
- *Establish methodologies more suited to the needs of the plant, implement and lead to success, initiatives of Strategic Maintenance*

Methodology:

- *Over two weeks of theoretical and practical work, four theoretical and practical courses will be held on reliability and strategic maintenance, targeting sectors: Plant Management and Maintenance and Operations Personnel, Personal Health-Safety-Environment HSE and Maintenance Planners MP.*

I. Criticality Analysis (Target : Planning Staff-Operation-Maintenance-HSE)

Duration: 3 days theoretical and practical:

- *Prioritization of assets and criteria*
- *Nesting Models assets*
- *Quantitative, semi-quantitative, Qualitative methods, and*
- *Probabilistic methods*

II. Root Cause Analysis RCA / RCA (Addressed to operating personnel Maintenance-HSE)

Duration: 3 days theoretical and practical

- *Maintenance Costs*
- *Methodology ACR*
- *Identification and Dimensioning of Problem*
- *Creation of Working Teams*
- *Survey Information and Evidence*
- *Technical Grounds*
- *Corrective and proactive actions*
- *Continuous Improvement Cycle*
- *ACR Techniques*

Methodology:

III. OPPORTUNITY ANALYSIS OF COST-BENEFIT-RISK (OCR)

(Directed to Maintenance Management personnel, Production Management, Planners, Operation and Maintenance Personnel)

Duration: 3 days theoretical and practical

- *Opportunity Cost Risk Methodology OCR*
- *Maintenance Costs*
- *Risk Costs*
- *Maintenance Benefits*
- *Losses for not applying Maintenance*
- *Cost-Risk*
- *Total Business Impact*
- *Limitations, resolving a Case Study*

IV. Strategic Maintenance Management: *(Directed to Maintenance Managers, Plant Managers, Production Managers, Supervisors of Maintenance and Production)*

Duration: 2 days

- a. *Strategic Management: strategic thinking, strategic planning, key attributes of Strategic Management, Strategic Management Process*
- b. *Strategies of alignment with the Vision-Mission-Goals of the Company*
- c. *Goal Setting in Maintenance*
- d. *Strategy Formulation and Components*
- e. *Analysis of Strengths, Weaknesses, Opportunities and Threats SWOT*
- f. *Management Risk and Uncertainty*
- g. *Decision Models*
- h. *Probabilistic Calculation of Net Present Value NPV*
- i. *Hierarchy of Investment Portfolios*
- j. *Criticality Analysis*
- k. *Identification of Best Practices*
- l. *Error Reengineering*
- m. *Detection Opportunities*
- n. *Root Cause Analysis*
- o. *Methodology Risk Based Inspection*
- p. *Maintainability*
- q. *Reliability Centered Maintenance*

Price: *Drafting of short and medium term projects where objectives and methodologies related to the guidelines are established for each company: \$3,800 per working day*

Notes: Expenses of above mentioned services do not include airfare tickets, lodging and food of Relimans LLC's technicians.

Written reports with recommendations and observations: \$5,000 per working week (five days a week).

Travel time cost of our technicians is \$1,000 per day per technician.