Maintenance Planning & Work Control in Oil & Gas Ports and Terminals

Proposal for a 3-day in-house training course for:

STANZAR TRAVEL

This course is designed, developed, and will be delivered under ISO quality standards.

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Part I – Technical Proposal

(Course Content & Consultant's Profile)

Why Choose this Training Course?

This intensive 5-day training course is specifically engineered to address the unique reliability and operational challenges inherent in the high-stakes environment of Oil and Gas Ports and Terminals. These facilities operate under extreme environmental conditions and stringent safety regulations, where the failure of a single transfer pump or loading arm can lead to catastrophic downtime and environmental risk. Participants will begin by exploring the specific failure and degradation characteristics of terminal assets, utilizing a robust criticality matrix to prioritize work. By integrating the Asset Healthcare Model with sophisticated Work Breakdown Structures, delegates will learn to transform raw asset data into actionable maintenance strategies that maximize asset life and minimize the "cost of unreliability."

Moving beyond foundational theory, the program dives deep into the mechanics of Shutdown Planning and Performance Management. Managers and technical staff will master the art of resource leveling and critical path scheduling, essential for managing the complex turnarounds typical of large-scale storage and transfer hubs. The course emphasizes proactive practices—such as Failure Modes and Effects & Criticaity Analysis (FMECA)—to focus cost-reduction efforts where they matter most. By the final day, participants will be equipped with a comprehensive suite of performance indicators to monitor maintenance effectiveness, ensuring that every work order executed contributes directly to the terminal's resource efficiency and bottom-line stability.

This training course will highlight:

- Failure and degradation characteristics of oil, gas and terminal assets
- Oil and gas asset classification into the criticality matrix for work identification
- Failure and degradation of assets
- Prioritization of activities and correlation of organization structural domain with work breakdown structure
- Schedule activities
- Proactive practices and tools to reduce maintenance costs
- Performance analysis to focus cost reduction efforts
- Work management to improve resource efficiency

Whatare the Goals?

At the end of this training course, you will:

- Understanding the failure mechanisms of oil and gas assets
- Identify the necessary work for assets life maximization
- Apply the correct type of maintenance for each asset
- Schedule work activities
- Control time, budget and scope during maintenance
- Assess performance of maintenance

Who is this Training Course for?

This course is recommended for reliability, engineering, planning and technical support staff including leadership and management. Also, including:

- Planners
- Supervisors
- Engineers
- Reliability engineers
- Maintenance and operations team leaders and managers

How will this Training Course be Presented?

This training course is delivered through a high-impact, blended learning approach that combines expert instructor-led modules with interactive class discussions to ensure concepts are grounded in real-world application. To bridge the gap between theory and the unique technical demands of the oil and gas sector, the presentation is supplemented by industry-specific case studies, practical exercises, and the analysis of real-world failure data.

Organisational Impact

The organisation will:

- Gain an understanding of the sources of maintenance costs
- Be able to focus its resources on the events that contribute most to costs
- Control asset life and performance
- Fully assess Maintenance activities in time, scope and efficiency

Personal Impact

The participant will be able to:

- Understand the machine failure and degradation
- Understand how poor reliability is a major factor in the cost equation
- Implement the appropriate maintenance program to improve reliability
- Control Maintenance cost time and scope during execution
- Assess all Maintenance activities with the appropriate indicators

Daily Agenda

The content may be adjusted to better suit your requirements.

Day One: FUNDAMENTALS OF MAINTENANCE PLANNING

- The contribution of maintenance to the business
- Criticality grading
- Failure modes and effects analysis
- Programmed task selection criteria & tools
- CMMS task plans & work orders
- Corrective maintenance task procedures
- Spares & materials planning

Day Two: PLANNED WORK SCHEDULING AND CONTROL

- Work management process model
- Defect reporting and notifications
- Backlog control
- Capacity planning and resourcing
- Schedule with consensus of stakeholders
- Major maintenance event scheduling

Day Three: PERFORMANCE MANAGEMENT & IMPROVEMENT

- Work management performance indicators
- Asset maintenance effectiveness performance indicators
- Cost control performance indicators
- Planning performance indicators
- Continuous improvement in maintenance and operations

TRAINER'S PROFILE

Mr. Rudolph van Wyk

Nationality: South Africa

Languages Spoken: English and Afrikaans

Total Years of Practical/Training/Consultancy: 25+ Years

AREAS OF EXPERTISE

- Root Cause of Failure Analysis
- Maintenance Work Planning
- Reliability Centred Maintenance (trained as practitioner by John Moubray)
- Shutdown and Turnaround Management
- Asset Management
- Machinery Failure and Predictive Maintanence

ACADEMIC QUALIFICATIONS

- Certified Reliability Centered Maintenance Practitioner, Aladon Group UK
- Project Management Professional, University of South Africa Business School

PROFESSIONAL CERTIFICATIONS, ASSOCIATIONS

- South African Maintenance Association
- The Society of Maintenance and Reliability Professionals

TRAINING COURSES PRESENTED, to name a few

- Maintenance Planning & Work Control in the Oil & Gas: Work Order Schedule, Failure Analysis and Asset Management
- Maintenance Planning
- Maintenance Technologies
- Maintenance Strategy Development and Cost-Effective Implementation
- Root Cause Failure Analysis (RCFA)
- Maintenance and Machinery Failure Analysis (RCFA)
- Refinery Shutdown & Turnaround
- Managing Efficient Shutdowns & Turnarounds
- Managing Shutdowns, Turnarounds and Outages
- Shutdown Management
- Certificate Course in Maintenance Planning: Build an Effective Planning System and A Competent Team
- Certificate Course in Advanced Maintenance Management: Identify Great Opportunities to Optimize Asset Performance
- Advanced Reliability Centered Maintenance
- Certificate Course in Maintenance Planning

TRAINING COURSES CONDUCTED, continuation

- Excellence in Maintenance and Reliability Management: Preventive and Predictive
- Maintenance & Reliability Best Practices: Lowering Life Cycle Cost of Equipment
- Management of Planned Stops
- Risk Based Strategies for Inspection & Maintenance (RBI & RBM)
- Compressors & Turbines
- Management of Planned Stops
- Optimising Equipment Maintenance & Replacement Decisions
- Principles, Applications and Performance of Pumps
- Reliability Centered Maintenance
- Reliability, Maintenance, Integrity & Improvement
- Rotating Equipment: Start-up, Operation, Maintenance & Troubleshooting
- TAM Planning and Execution (TAR Fighter)
- Technician Best Practices in Maintenance & Reliability
- Understanding and Preventing Process Equipment Failures
- Process Engineering Flow Scheme (PEFS)
- Pipeline Operations and Maintenance
- Practical Pump & Valve Technology
- Modern Valve Technology
- Multiphase Flow Metering
- Offshore Structure Design, Construction, Inspection, Maintenance & Repair

PERSONAL SUMMARY STATEMENT

Mr. Rudolph Van Wyk is a Senior Training Consultant with a several training companies, specializing in Maintenance Management, Shutdown and Turnaround Management and Root Cause of Failure Analysis, He is an accredited facilitator of Reliability-Centered Maintenance (RCM).

With over 30 years of practical experience across diverse industries - including mining, heavy chemicals, steel manufacturing, food processing, and software development - Mr. Van Wyk has developed deep expertise in both maintenance and project management.

He completed the Project Management Development Programme at the University of South Africa in 1990, which laid the foundation for his extensive career in maintenance and project management. From 1993 to 1998, Mr. Van Wyk worked as a maintenance management consultant in the petrochemical sector, where he focused on developing and implementing maintenance programs and managing shutdown operations.

Subsequently, he spent six years with a major South African software company, where he was involved in the training and implementation of Computerized Maintenance Management Systems (CMMS). He later advanced to the role of Resource Manager, overseeing project resourcing and contract management.