

Reliability/Asset Management

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Abstract - Asset management is essential to the success of any business enterprise, regardless of the size of the business. But even a successful company with an established asset management program can experience asset failures and incur related costs that strain the organization's resources and present obstacles to achieving operational and financial goals.

An Asset and Reliability Management program combines the art of management with the science of engineering to coordinate all asset management activity within a business enterprise to derive maximum operational and financial value from business-critical physical assets.

Maintenance is one of the most critical areas governing any process industry. Maintenance, when neglected, leads to frequent breakdowns, costly repairs, and faster deterioration of valuable equipment, causing incalculable production loss. This necessitates continuous equipment monitoring by adopting asset care management and practicing autonomous maintenance. Asset Care Management emphasizes maximizing the overall equipment effectiveness through the people operating and maintaining the equipment. The reliability and maintainability of components can be enhanced through improved design, skilled workforce, strict supervision, and adopting best maintenance strategies such as life cycle management, spare parts management, root cause failure analysis, reliability improvements, lubrication management, and life cycle management.