

Spare Part Inventory Management

No part of the contents or materials available on this presentation may be reproduced, licensed, sold, published, transmitted, modified, adapted, publicly displayed, broadcast (including storage in any medium by electronic means whether or not transiently for any purpose save as permitted herein) without the prior written permission of the author

Introduction

- Business goals and relation to spare part inventory management
- Putting MRO-related financials in perspective
- Spare parts supply chains
- Equipment maintenance strategies

MRO-Organization

- Mission
- Positioning
- Policies and procedures
- KPI's

S&OP and Integrated Business Management

- S&OP and consequence for MRO-operation
- Extending S&OP to Integrated Business
- Management
- Spare part life cycle process:
 - introduction process and cataloguing
 - phase-out process

Demand driven spare part management

- Lead-time
- Order/Forecast decoupling point

Forecasting Spare Part Requirements

- Historical vs. future requirements
- Statistical distributions – Normal, Poisson, Weibull
- Equipment monitoring methods

Categorization of spare parts

- Value
- Requirements
- Criticality

Spare part inventory management best practices

- Spare part inventory locations:
 - Single plant
 - Multi-plant
- Forrester effect
- LEAN principles

Spare part inventory management basics

- Ordering strategies
- Planning parameters
- Spare part related cost
- Order quantities:
 - Fixed
 - Variable

Spare part supply

- Company internal supply
- Vendor Managed Inventory
- Service Organisations
- Vendor Selection

Information Systems

- CMMS:
 - stand-alone versus integrated
 - Data maintenance
 - Data accuracy
- MRP, DRP
- Data sharing