

Asset Integrity and Maintenance Management Services



Adding value to your business...



HOFINCONS GROUP



Our Vision

To become a globally recognized group in providing technology driven services with unswerving commitment to our Customers through commitment & professionalism with customer satisfaction as the prime objective.

Our Mission

To continuously strive to excel in all our business and meet the stakeholders' expectations by providing hi-tech services and products through in-house expertise and strategic alliances, as well as seek newer opportunities globally.

Our Commitment

To assist customer's Globally to achieve the best out of the existing and newly installed Industrial Assets by adopting innovative & high technological cost-effective Asset Management Services.

Towards our efforts to achieve high standards of service to the customer, we shall continuously endeavor to improve our technical and professional competencies to world-class levels through absorption, innovation and continuous learning.

To believe in fair, open, stimulating and collaborative work environment for internal harmony that will complement our emphasis on excellent customer relations.

Value for time, respect for individual dignity and perseverance for reliability will be our prime guiding principles in our dealings.



HOFINCONS GROUP



Corporate Profile

Hofincons Group Companies are specialized in providing Industrial Asset Integrity and Maintenance Management services, operating worldwide for over 36 years. Hofincons Group offers end-to-end services in Technical Consulting, Contracted Services, Engineering Services, Technical Training, and CMMS/ERP support Tools Development & Implementation.

Hofincons Group has over 200 professional engineers, specialists and technicians, specialized in various aspects of Asset Management. Hofincons has developed in-house IT tools to support the various aspects of business and consulting. The specialists are supported by extensive consulting experience, case studies, and reference library, with a well established IT division.

In view of the strategic location, Hofincons setup the Group Head Quarters in Muscat, Oman in 1998.

Hofincons Group assist clients to achieve Technical Integrity of their assets by ensuring maintainable assets &

their criticalities are identified, Planned maintenance (Preventive, Predictive) are in place with meaningful achievable tasks & required frequencies, the reported abnormalities are analysed to identify Root Causes and develop appropriate Equipment improvement programs. Hofincons Group also engage in consulting assignments and are involved with client Asset Management groups to develop appropriate Maintenance Strategy through Risk & Reliability Management framework.

Hofincons Group companies are ISO9001:2008 and OSHAS 18001:2007 certified. The group are also members of various professional bodies such as ECCMA, OPAL and the likes.

Message from Managing Director



Mr. Vijay Chintalapudi
Managing Director

Our pathway to all round success is developed based on our principles of commitment, excellent quality, and of value added solutions.

Having been involved in the Oil & Gas and other Industries around the world for over 36 years, our company envisions being trusted partners for delivering exceptional and impeccable solutions.

In the Heart and Mind of our staff, achieving results is always crucial but safety & quality is never sacrificed. Our dedication in providing highly professional and sustainable services at cost effective prices is a testament to our commitment. We offer quality solutions and technologically advanced services to our customers.

It gives me great satisfaction to know that our contribution to our customers enable them to operate pivotal aspects of their business in a more efficient, economical and, very safe environment. Customer satisfaction is the hallmark by which we measure our performance.

We consistently strive to maintain competitiveness, while sustaining healthy growth for the benefit of our customers satisfaction, in line with our specialized services.



HOFINCONS GROUP

Key People



Mohamed A. Al Harthy
Chairman



Vijay Chintalapudi
Managing Director



Ali Said Al Harthy
Executive Director



Basil Mascarenhas
General Manager –
Admin & Accounts



Madhu Sudhana Revuru
General Manager –
Corporate Development



Gnanasekaran Chinnadurai
General Manager –
Operations



Sameer Mohomed Bedre
Manager –
Marketing & Business Development (Global)



Derek Maguire
Projects Director



Dr. Edwin Browne
Technical Advisor –
Reliability & Condition Monitoring

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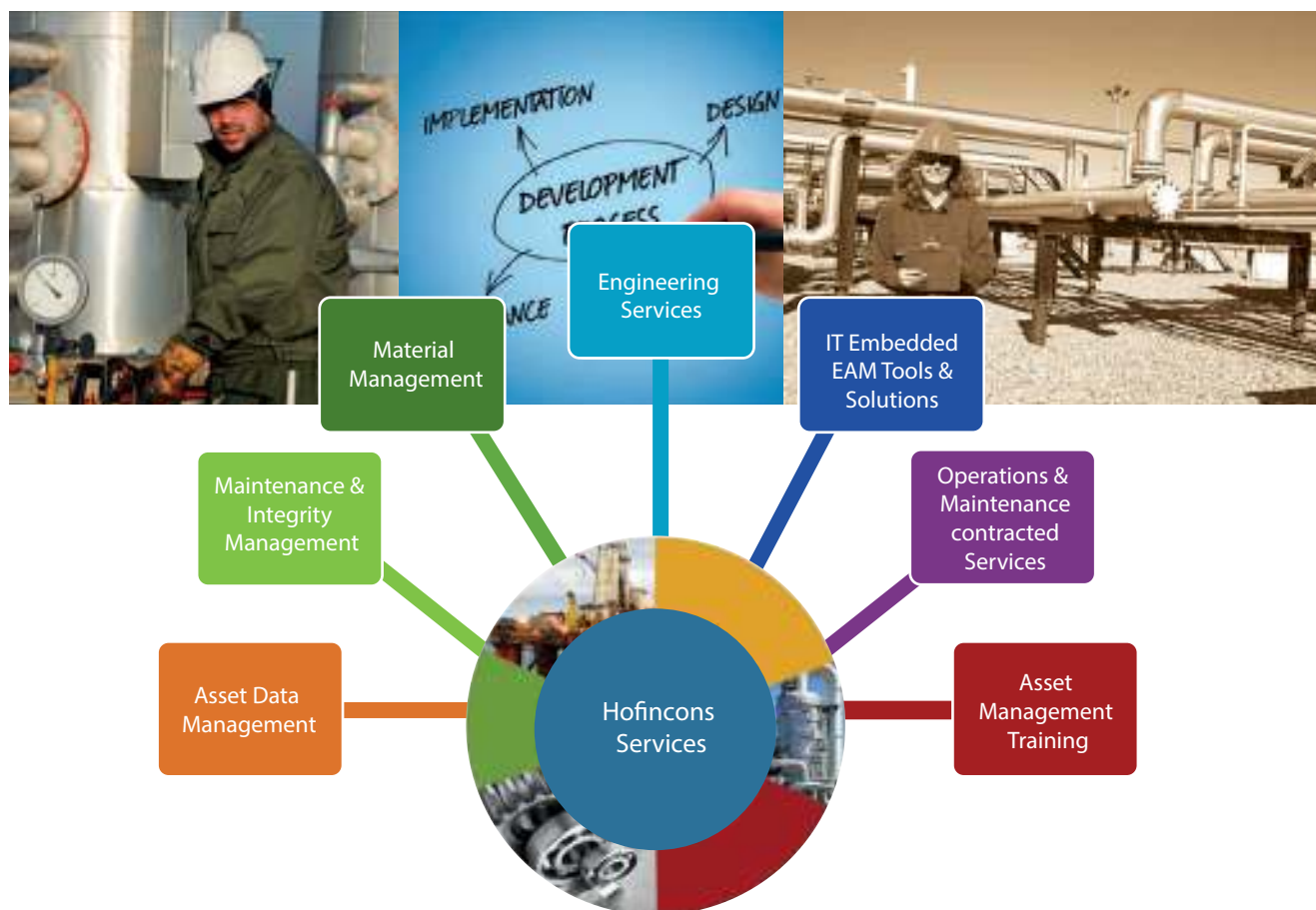
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Certifications & Memberships



ISO 9001 : 2008 Certified
OSHAS 18001:2007 Certified

Services Domain



Oil & Gas - Petrochemicals - Utilities - Steel & Metallurgy - Other Heavy Industries

Services Overview

- Asset Register build
- Asset data cleansing & restructuring
- As-build Asset Verification
- Asset Gap Analysis and Reporting
- Material Cataloguing, Data Cleansing & Enrichment
- Bill of Material (BOM) and SPIR/SPIIL
- Identification of Safety Critical Elements and development of Performance Standards with Assurance Measures
- Criticality Analysis (FCA & ECA)
- Failure Mode Effect Analysis (FMEA) and Reliability Centered Maintenance (RCM)
- Risk Based Inspection (RBI)
- Risk Spare Analysis (RSA)
- Maintenance Strategy and Maintenance Plan
- Work Order Description / Maintenance Craft Procedure
- Maintenance Optimisation (PMO)
- Root Cause Analysis (RCA) and Equipment Improvement Programs
- Reliability, Availability and Maintainability study (RAM Study)
- Operations and Maintenance manuals
- Process Design, Equipment Design & Engineering solutions
- 3D Modeling
- Instrumentation, Control Systems, Electrical Design and Engineering
- Explosion Proof (EX) Equipment Identification, Inspection and Repair
- Maintenance Coaching & on-Job Training
- Operation & Maintenance Contracted Services
- IT Embedded EAM and ERP support tools & application Development



Maintenance Effectiveness Studies



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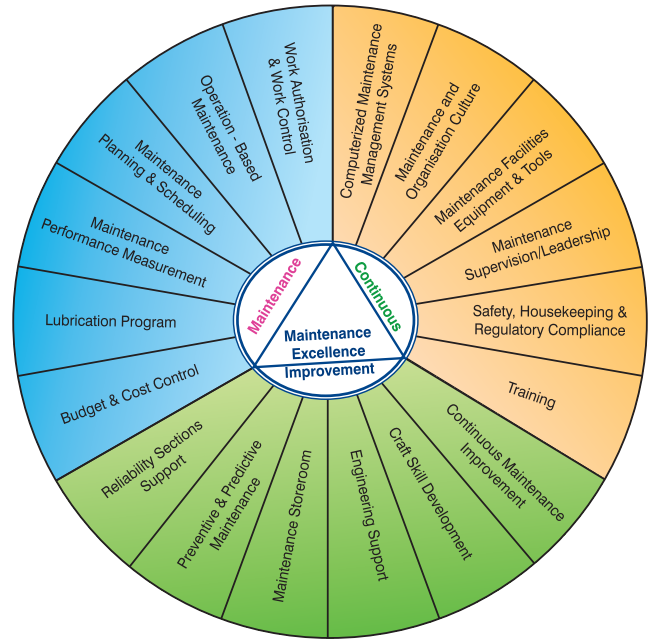
As competitive pressures grow, managements are looking for ways to reduce the costs and improve production. Quite often decisions involve changes in organization structure, business strategy, spares, training and so on, but leave out the most important cost drivers. Hofincons can support you to understand the real cost drivers to improve the production by reducing the plant downtime.

Hofincons is in a position to conduct systematic maintenance evaluation studies of your plant and assess your maintenance performance against your objectives.

When effectively implemented, the study will be a powerful change tool to establish optimum performance of your plant. The results will throw the options for various strategies, which can be implemented effectively. Furthermore, effective maintenance can directly enhance equipment performance and reduce maintenance costs. It includes an evaluation of major functional areas within maintenance operations and covers over 200 evaluation items.

As part of the Maintenance Effectiveness studies, Hofincons provides the following services:

- Asset Reference Plan (ARP)
- Operational Reference Plan (ORP)
- Maintenance Reference Plan (MRP)
- Maintenance Evaluation & Benchmarking
- Gap Analysis



The Scoreboard for Maintenance Excellence provides a convenient working document for developing a strategic plan for continuous maintenance improvement. It can also be tailored by adding specific goals for each type of maintenance operation.





Reliability Centred Maintenance (RCM)



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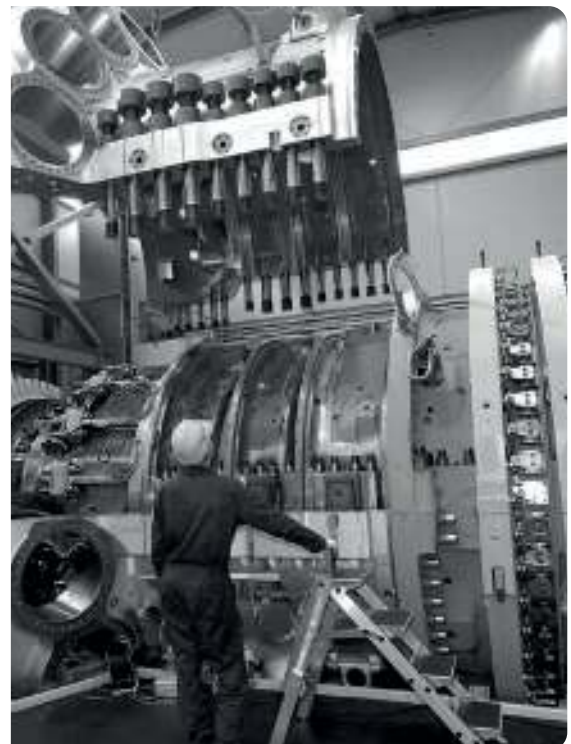
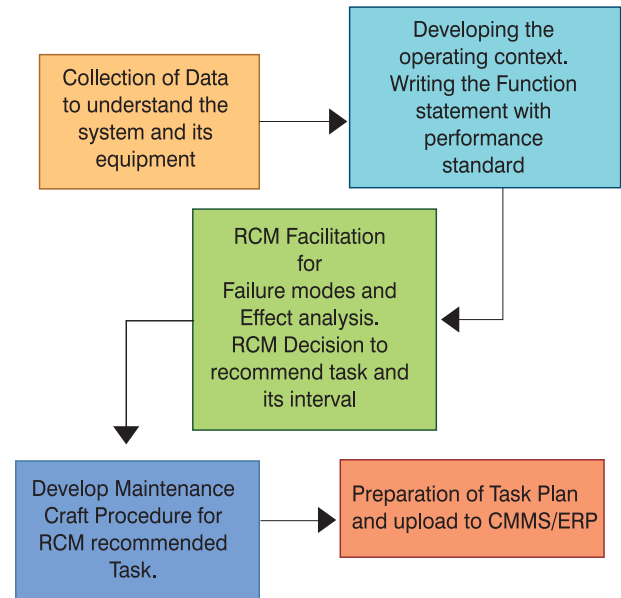
Reliability Centred Maintenance (RCM) process is a logical analysis applied to determine the required maintenance of a physical asset in its operating context.

Required maintenance means “What” must be done to ensure that a physical asset continues to do what its users want it to do in its present operating context. RCM analysis is carried out through a set of seven basic (prescriber) questions, as classified in RCM, to technically conclude the right decisions to determine the maintenance requirements. RCM analysis by Hofincons complies with SAE JA1011 standard.

As added value, Hofincons will also development maintenance output from the RCM study in for form of CMMS system required routines

Benefits of RCM

- Greater Safety and Environmental integrity.
- Highest availability and reliability.
- Higher product Quality.
- Greater Maintenance Efficiency – reduction of routine maintenance workload.
- Longer useful life of the expensive assets.
- Greater motivation to individuals – to do the right job right, first time.
- Better teamwork improving communication and co-ordination between operations and the maintenance functions.
- Best suited maintenance planning data with appropriate craft procedure.





Maintenance Optimization (PMO)

Maintenance optimization is a process to optimize the existing planned maintenance program based on the equipment maintenance history.

The need for maintenance optimization is to improve the Maintenance Process and Increase the effectiveness and efficiency of PM tasks in order to increase Reliability & availability of the Equipment and Plant.

Maintenance optimization eliminates unnecessary tasks that are ineffective & invasive AND identify & include tasks that are required. Maintenance optimization will help to develop an appropriate maintenance strategy to achieve inherent availability of the system / equipment by an integrated approach to achieve its designed reliability Function

Benefits from Maintenance Optimisation:

- Failure Reduction
- Task Reduction and Optimization
- Increased productivity
- Reduced maintenance costs by better utilization of Maintenance Crew and time
- Ultimately moving from Time Based Maintenance to Condition Based Maintenance



Risk Based Inspection

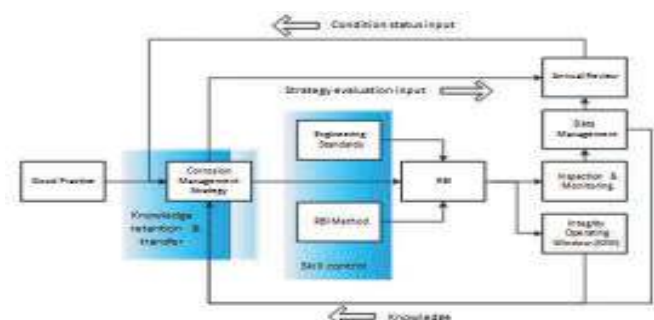
In the current scenario, process safety through asset integrity receive ever increasing attention whilst continuing pressure to excel financially. To satisfy the stake holders, industries have to demonstrate not only the financial excellence but assure technical integrity of its assets.



Risk Based Inspection (RBI) is part of Risk and Reliability Management (RRM) and inline with Asset Integrity & Reliability Management System (AIRMS). A dedicated RBI study will guide when, where and what type of inspection and monitoring is required for particular asset.

RBI requires the involvement of various disciplines of the organization such as operations, process and mechanical engineering, maintenance, shutdown and production planning and safety group.

Implementing a Risk Based Inspection (RBI) in an organization is not the sole responsibility of the Inspection/ Materials/ Corrosion engineering group. Successful RBI programs require the commitment and cooperation of the total organization, with clear management support.





Engineering Services



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Hofincons Group provide various Engineering services throughout the lifecycle of the plant and equipment packages. Be it from the conceptual design to decommissioning, Hofincons can bring in the expertise to cater to client requirements.

With the specialist knowledge of processes and applications and the depth of technical experience across technology, Hofincons is able to harness the right blend of project management and specialist engineering resources for the project.

- Feasibility Studies
- User Requirement Specification (URS)
- Instrumentation & Control systems Engineering
- Plant Wide Automation
- Control & Automation integration
- Technology Platform Interoperability and Interconnectivity
- Control & Automation System Architecture Design
- Electrical Design & Detailed Engineering
- 3D modeling (PDMS) Process Design
- Structural Design & Detailing
- As-build drawings and documentation
- Operations & Maintenance manuals documentation
- Decommissioning Projects (Offshore and Onshore)





Safety Critical Element (SCE) and Performance Standards (PS)



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The term 'SCE Management' covers the method of providing workable, sustainable, measurable and standardized processes and tools to assure the performance of SCEs to demonstrate that these hardware barriers are in place and effective. Effective management of all Assets' Technical Integrity is a fundamental part of the business and a key area for continuous improvement across the company.

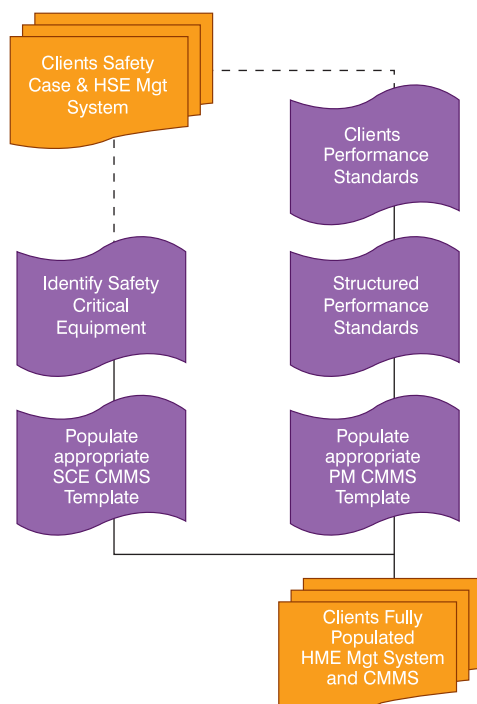
Technical Integrity is defined as "Integrity of an Asset is achieved when, under specified operating conditions, the risk of failure occurring which would endanger the safety of personnel, the environment or Asset value is tolerable and has been reduced to as low as reasonably practicable (ALARP)".

Safety Critical Elements and Performance Standards

- Safety Critical Element (SCE) (also known as 'HSE Critical Element')**
An item of equipment or structure whose failure could lead to the release of a Major Hazard or whose purpose is to prevent or limit the consequences of a major incident, excluding business loss. The term SCE has the same meaning as the term HSE Critical Element,
- Performance standard (PS) for Operate phase**
A statement, which can be expressed in qualitative or quantitative terms, of the functional performance required of a system or item of equipment and which is used as the basis for managing the risk from the Major Hazards.

SCE-PS Process Diagram:

Hofincons has been involved in the evolution of the strategy in Identification, development and CMMS implementation of Safety Critical Elements and Performance Standards with Assurance Measures with most of the Oil & Gas Majors globally.



The SCE Management process:

- Identification of barriers & SCEs and update in CMMS
 - Development of Operate phase elements of performance standards and performance assurance tasks and update in CMMS
 - Alignment of performance assurance tasks with other planned maintenance routines in CMMS
 - Execute performance assurance activities and record results
 - Identify, control, report and closeout of non-conformances through a deviation management process
 - Analyze and Improve
- These tools shall be established during the Asset's Execute phase and operated & maintained during the Asset's Operate phase.





TIMS®

Technical Integrity Management System

TIMS® is a Hofincons in-house developed interactive web based application to manage the Technical Integrity (TI) of Safety Critical Equipment (SCE) assets adhering to the company Performance Standards (PS) and Assurance values. TIMS® provides Asset Managers and operational engineers a roll-up reporting and management system. TIMS® is SAP Certified Tool.

The Preventative, Corrective and break down maintenance work orders from CMMS/ERP are analysed and reported in traffic light (Red-Amber-Green) overview. The overdue work order dates deviation mechanism will commence through a workflow management process triggered and controlled by the appropriate technical authorities. TIMS® also tracks assets in a bypass situation and plus temporary repairs that are in-place & logged.

Benefits of TIMS Implementation in Process/ Manufacturing industries:

- A robust web interface platform to deliver a Global Asset Integrity reporting system that will interface with popular CMMS
- Avoid surprises in equipment downtime, which leads to improved Integrity and license to operate.
- Roll-up reporting from component level to company-wide
- Bypass and temporary repairs tracking
- Configurable Risk Assessment Engine
- Mix-Mode SCE's (Tag and Equipment)
- Deviation workflow and user action tray
- Email messaging integration
- Flexibility on User Role Mapping, permissions
- Active Directory and Single sign-on option
- User Restrictions
- SMS Integration Option
- User Delegation



TIMS® is compliant with the global standards, frameworks and procedures of Risk assessment (Risk Matrix based on People, Asset, Environment and Reputation parameters).

TIMS® integrated into any popular CMMS/ERP system in general and certified for SAP in particular.



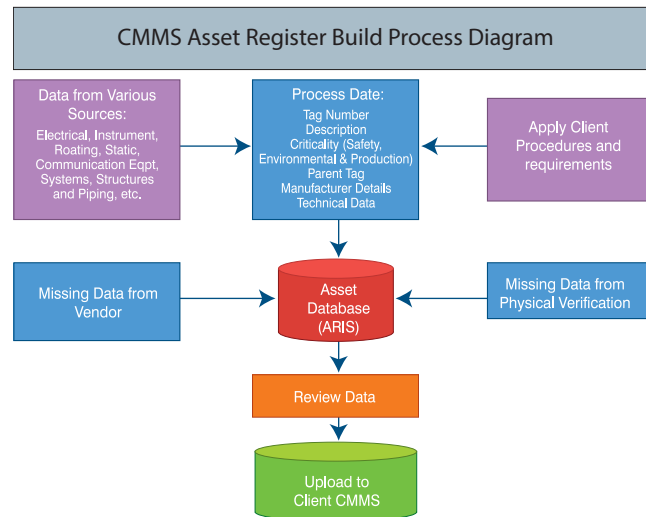


Computer Maintenance Management System (CMMS) Data build



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An Asset Register is the fundamental system for planning the maintenance activities in a Maintenance Management System (CMMS). A clean and complete Asset Register Data ensures Asset Integrity. The Asset Register is a collection and verification of the tag numbers collected from the Engineering documentation. A hierarchy structure is developed based on the parent-child relationship between equipment.



Hofincons is specialized to take-up following services for successful implementation of any Computerized Maintenance Management System (CMMS):

1. Asset Register build for any Green / Brown field projects
2. Asset Data Cleansing and Restructuring
3. As-Build Asset Verification
4. Identifying the Safety Critical elements & developing their Performance Standards with Assurance Measures (To ensure Process Safety through Asset integrity)
5. Develop Maintenance / Job Planning data with Maintenance / Work Instructions
6. Preparation of Bill of Materials (BOMs)
7. Preparation of SPIRs

The scale of a CMMS and the number of users can lead to increased workloads, frustration and inadequately maintained equipment of the CMMS is not built and maintained correctly

Ensuring the resources required to create and maintain a CMMS are optional will prevent inaccuracies of information and inappropriate maintenance applications, reducing workload and eliminating frustration.

Hofincons, provides industrial asset management services to process industry globally and has developed a proprietary software tool ARIS® (Asset Register Information System), to prepare quality data for plant maintenance requirements. Hofincons ARIS® is a web based solution that helps to build a complete Asset Register with BOMs and Maintenance Planning Data for ready-upload to implement any CMMS / ERP.





ARIS®

Asset Register Information System

ARIS® is Hofincons proprietary Industrial Asset Register Information tool is used for preparing PLANT MAINTENANCE (PM) asset register. ARIS® provides a structured approach to build the asset register with appropriate customised levels of asset hierarchy (parent-child relationship), technical characteristics and Bills of Materials (BOM) as per standard technical value guidelines and UOM standardization. ARIS® is SAP Certified Tool.

ARIS® is supported by a wide variety of Asset Reference technical data, Industry standards, and Technical value presentation guidelines to systematically and quickly populate any asset data. Client can login to ARIS® and review the status & quality of data prepared by the engineer.

Benefits of Asset Register development through ARIS®

- Structured Asset and Maintenance data build
- A centralized Asset register database with BOM and Maintenance Planning data to generate suitable bulk data templates for effective porting into any ERP/CMMS.
- Capable of porting the asset data to any CMMS/ERP by using various data Interface/transfer mechanisms like IDOC/BAPI for SAP and bulk upload routines for other systems.
- Multiple Search capability
- Asset Duplication resolution
- KPI reporting
- Add asset images, equipment drawings and source files



ARIS® Application can be segregated as 6 major modules for:

- Asset base data preparation
- Bills of Materials (BOM) development
- Maintenance Planning data preparation
- Maintenance craft Procedures / Work Instruction preparation
- CMMS Templates generation
- Administration for application setup and guidelines





Material Cataloguing



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Material cataloguing is a process to identify each material item with its full details such as specifications, standards and descriptions for: easy identification, developing appropriate buying descriptions, procuring when needed, and to avoid duplicates in the inventory.

Hofincons undertakes new material cataloguing or existing catalogue cleansing by codifying, formatting of each MRO spare item as per international standards such as ECCMA, ISO 9008 with the help of a specialized proprietary tool MCAMS®. Hofincons further enrich the material descriptions to develop complete buying description for each MRO spare by referring to Hofincons Standard Cataloguing Dictionary & Hofincons Reference Material Database, manufacturer IP (Illustrative Part) catalogues, material data collected physically from material item wherever required & available, and through Internet sources.

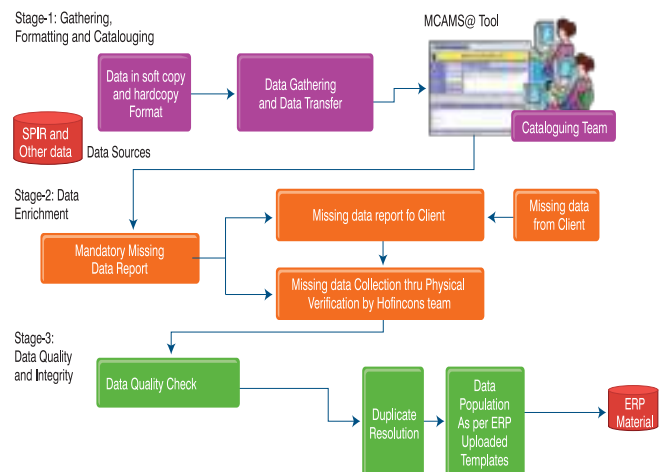
Hofincons standard cataloguing dictionary and reference database are continuously updated by Hofincons material cataloguing experts.

Hofincons has developed a proprietary tool MCAMS® for comprehensive Material Cataloguing solution to catalogue MRO items as per international standards. MCAMS® can be interfaced with any popular CMMS/ERP System..

Hofincons Material Cataloguing Process

Benefits of Material Cataloguing by Hofincons,

- Accurate material data, Appropriate buying descriptions, and Effective procurement
- Elimination of Material Duplicates, Avoidance of false stock, and Inventory reduction
- Standardization of Material Master data
- Identification of Obsolete/Surplus/Deleted Items
- Minimize Technical Evaluation
- Increased equipment availability



**MCAMS®**

Material Catalogue Management System

MCAMS® is a materials cataloguing tool developed by Hofincons to structure the material item through Hofincons Noun Modifier Templates (HNM Schema) and enrich the material data by referring to Hofincons Reference Catalogue database to finally generate Complete Buying descriptions. MCAMS® is SAP Certified Tool.

MCAMS® is used for material cataloguing, data cleansing, structuring and enriching buying descriptions to universal standard with standard Noun-Modifier. It can be used for sorting out many issues related to your inventory. MCAMS® is supported by a wide variety of Material Reference Catalogue data, industry standards, and Technical Value presentation guidelines to quickly populate the technical characteristics of any material item.

MCAMS® Application feature summary:

EV Production is one of the core modules wherein “EV Cataloguing Form” and “EV QC Form” interfaces are defined to catalogue the material items by importing client source data from different editable formats.

SPIR management module is to arrive at the spares interchangeability of the inventory item for variety of equipment supplied by vendor(s) through SPIR registration / Equipment registration / Vendor registration interfaces.

CMMS Reports module is a reporting module wherein user can build client specific CMMS data mapping templates with catalogued data to finally upload into client CMMS database either through Bulk upload transfer or by Schema transfer.



Benefits of Material Cataloguing through MCAMS®:

- Considerable reduction in inventory
- Ready to port the inventory data to any CMMS/ERP
- e-Procurement Advantage
- Easy to Search capability for an item in any CMMS/ERP through a industry standard Hofincons Noun Modifier Schema (HNMS)
- Material Duplication resolution
- Quicker and standardized cataloguing
- KPI reports



A few of our Clients...



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