

Computerized Maintenance Management System Assessment (CMMS Assessment)

Improve overall maintenance strategy and increase equipment reliability

A CMMS is considered a critical component of any Operation and Maintenance project and forms a central part of the overall information system. The main objective of maintenance is ensuring the safety, availability, reliability and operability of a plant as efficiently as possible. A well structured and properly implemented CMMS is strategic to achieve these objectives.

CMMS facilitates the controlled flow of the latest information across different levels. This helps to efficiently carry out the work processes and tasks in power plants. It also enables continuous improvement of the quality and safety of the work with regular reviews of maintenance strategies and optimized work flows.

Each facility has its own process of maintenance management. The use of manual or complex methods of maintenance management may lead to decentralized, partly redundant data storage and requires a great deal of data management with relatively little value to the users.

A well structured and properly implemented CMMS is strategic to achieve the main objectives of maintenance.

Our solution

Our CMMS Assessment is a Technical Consultancy product and its goal is to review your maintenance strategies and work flows using worldwide Siemens O&M experience.

Our target is to understand your CMMS and propose recommendations in order to reduce system complexity, increase transparency and flexibility. A complex CMMS that is not adaptable to changing requirements will end being side-stepped or bypassed. CMMS should be understood and used at every level in the organization, therefore it is important to be simple and easy to use.

From our global O&M experience, a suitable CMMS system has to excel on each of the following aspects:

- Functionality (good interaction between product features)
- Ergonomic (easy usability)
- Flexibility (flexible for users to handle special situations)
- Adaptability (able to easily handle modifications to adapt to changing project conditions)
- Maintainability (easy for administrators to maintain the system).

Therefore these aspects are considered as keys drivers in our CMMS Assessment.

Your benefit

CMMS Assessment analyses and evaluates the performance of your maintenance management.

Our analysis of your CMMS can help you determine out how to:

- Optimize Enhance processes and streamline workflows
- Reduce data management issues
- Enhance the interaction with operation, HSE, accounting and invoicing
- Reduce planning effort
- Reduce duplication of work

In addition to the typical functionalities, we will also look for other functionalities that should work in a smooth interaction with the CMMS (see table 1). Our objective is to provide practical recommendations in order to make an easy and reliable work between the departments where those functionalities belong.

The evaluation will be captured in a confidential report, which contains recommended actions in order to help you enhance your performance and profitability.

Example

Pre-evaluation phase	On-site execution phase	Evaluation phase
Preparation and pre-analysis of preliminary information	Interviews and analysis	Evaluation Conclusion and report
1 week	2 days minimum	1 week
<ul style="list-style-type: none"> Power plant specific preparation Evaluation of preliminary information (CMS data, procedures) 	<ul style="list-style-type: none"> Interviews with employees in relevant departments Access to relevant systems and documents 	<ul style="list-style-type: none"> Preparation of presentation Preparation of improvement areas

CMMS areas of evaluation

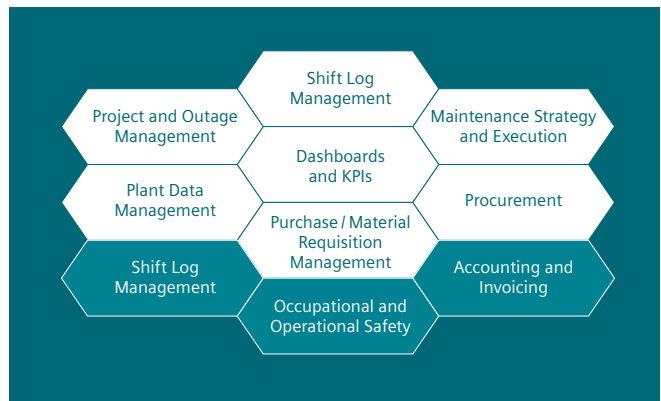


Table 1: CMMS functionalities

Areas of evaluation	Details	
Plant Data Management	Plant data structure	TYPICAL FUNCTIONALITIES
Dashboard and KPIs	Accessibility of documents	
Maintenance Strategy and Execution	System audits and data analysis	
Inventory Management	Maintenance measures	
	Fault / failure behavior	
Procurement – Purchase / Material Requisition Management	Maintenance cost analysis	
Project and Outage Management	Strategic and spare parts	ADDITIONAL FUNCTIONALITIES
	Consumables / tooling management	
Shift Log Management	Requisition / purchase workflow	
	Interface with maintenance strategy	
Occupational and Operational Safety	Major / minor maintenance planification	
	Schedules and cost information	
Accounting / Invoicing	Shift planning flexibility	
	Critical shift events	
Occupational and Operational Safety	Acknowledgement and execution of activities	
	Maintenance safety	
Accounting / Invoicing	Accident risk analysis	
	Interface between CMMS and accounting / Invoicing tool	
	Workflow interactions	

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