

# Operational Reliability Manager (ORM)

## Structured Maintenance Strategy Analysis

### Operational Reliability Manager

ORM is a recognised approach to establishing the maintenance requirements for any equipment. It is based on determining what must be done to ensure that the equipment fulfils its intended function in its current operating context.

### The ORM Process

ORM differs from previous maintenance thinking in two main ways: it focuses on the function of the equipment rather than on the equipment itself; and it generates maintenance designed to avoid or mitigate the consequences of failure.

ORM is designed to hold, manipulate and analyse ORM data in an intuitive, structured and flexible way.

Built around a functional hierarchy model, with all data being stored in a relational database, it breaks down the system to be analysed successively in terms of its functionality until the level is reached, at which data is available or appropriate for ORM analysis, which can best be considered as a sequence of steps:

### Functional Definition

Identify the functions and associated performance standards of the equipment in its current operating context.

### Failure Mode & Effects Analysis (FMEA)

Define the functional failures, the credible causes of each functional failure and its effects.

### Failure Characteristic Analysis (FCA)

Investigate the physical characteristics of each failure mode.

### Maintenance Strategy Selection (MSS)

Using the ORM logic to select applicable and effective maintenance strategies.

### Planned Maintenance Routines (PMR)

Group maintenance tasks together to produce practical maintenance routines.

ORM maintains traceability links from the failure mode in the FMEA through to the PMR.

It permits the creation of child studies from previously completed parent studies. In doing this, the logic and structure of the ORM process is maintained through controls built into the software.

ORM includes a comprehensive reporting structure and import/export facilities for complete portability.

### ORM is distributed by:



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