

## **FAILURE MODES & EFFECTS ANALYSIS (FMEA)**

### **1 day workshop**

#### **1. FMEA**

Developed by reliability engineers in the 1950's, FMEA is a team-based risk assessment approach that strives to identify all possible failure modes of a product or process, and to eliminate or mitigate the impact of those failure modes. It involves the establishment of a table of risks in priority order, and the execution of tasks and projects to eliminate the risk, or reduce the probability or the risk occurring, or reduce the impact of the outcome of the risk if it does occur. FMEA is most effective when done at the design phase of a product or process.

#### **2. Learning Objective**

The Cordatus one day workshop involves taking a cross functional team of personnel who are knowledgeable about a product or process through the establishment of the FMEA risk table, and the drafting of an action plan to mitigate the priority risks listed in the table. At the end of the workshop candidates will

- understand FMEA and its significance in product and process design
- understand when to use FMEA
- understand the cross functional nature of the exercise
- be enabled to draft a FMEA table, and
- be enabled to draft an action plan following the completion of the FMEA table.

#### **3. Agenda**

<b>Time</b>	<b>Item</b>
09.00	Introduction to FMEA Review of product or process – the subject of the FMEA. Gemba walk and specification review. Failure mode identification and RPN calculation
12.45	Lunch
13.30	Failure mode identification and RPN calculation (cont'd) RPN prioritisation and selection Action plan, responsibilities & timelines Review with project sponsors & close

#### **4. Who should attend?**

The FMEA workshop is conducted on an organisation product or process and therefore those who are most knowledgeable, and have a vested interest in, the product or process should attend. Senior personnel who will be sponsoring the improvement projects are also welcome to attend.

Some advance preparation is required for this workshop e.g. gathering of appropriate product/process specifications or process maps, and your Cordatus consultant will be happy to guide this preparation by telephone call in advance of the workshop.

#### **5. Contact**

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