Root Cause Analysis and FMEA

**Root Cause Analysis**

- **Symptoms & Effects**
- **Problem Statements & Description**
- **Possible Causes**
- **Root Cause**

**Never Achieved Problem**
- Design Error (materials geometry)
- Interfaces/Interactions
- Customer Usage
- Environment
- Degradation
- External

**Design Root Cause(s)**

**Change Induced Problem**
- Man
- Method
- Materials
- Machines
- Measurement
- Mother Earth (environment)

**Process Root Causes(s)**

**FMEA**

- **Potential Effects Of Failure**
- **Potential Failure Modes**
- **Potential Causes (Lower OCC)**
- **Potential Causes (Higher OCC)**