



DEFENSE ACQUISITION UNIVERSITY

CMQ 260 - Failure Mode Effects Analysis

150516

Course Learning/Performance Objectives followed by its enabling learning objectives on separate lines if specified.

1	<p>Given a scenario involving a product, the student will be able to examine a failure to determine the Failure Mode Effects and Criticality Analysis (FMECA) probability of occurrence.</p> <p>Interpret the importance of QA within DCMA's vision, mission, and core values.</p> <p>Identify the DCMA's organizational relationship to the acquisition community.</p> <p>Recognize the missions of the four QA Executive Directorate divisions: Process Management, Information Management, Resource Management, and Quality Engineering.</p> <p>Examine the key organizational structure of the Operations Directorate and QA Division.</p> <p>Recognize the responsibilities of the QA, Operations, Special Programs, and International directorates under the DCMA organization.</p>
2	<p>Given a scenario involving a product, you will be able to identify the steps to rank and examine a failure to determine the Failure Mode Effects and Criticality Analysis (FMECA) Severity level/class.</p> <p>Define FMECA probability of occurrence.</p> <p>Given a sample product, identify failure mechanisms that lead to FMECA probability of occurrence.</p> <p>Given a sample product, examine a failure to determine the FMECA probability of occurrence.</p>
3	<p>Given a scenario involving a product, assess Failure Mode Effects and Criticality Analysis (FMECA) criticality.</p> <p>Define FMECA criticality.</p> <p>Given a scenario with a sample product, identify how the FMECA criticality is calculated.</p> <p>Given a scenario with a sample product, assess a failure to determine the FMECA criticality.</p>
4	<p>Given a scenario involving a product failure with identified risks, assess risk mitigation techniques.</p> <p>Outline risk mitigation techniques</p> <p>Evaluate the risk mitigation technique for each identified risk, when given a product failure with identified risks</p>
5	<p>Given a scenario involving a process failure, identify the team review steps for a Process Failure Modes and Effects Analysis (PFMEA).</p> <p>Define PFMEA</p> <p>Identify the purpose of PFMEA</p> <p>Identify the steps of a PFMEA team review</p>
6	<p>Given a scenario involving a process, evaluate a failure using the Process Failure Modes and Effects Analysis (PFMEA).</p> <p>Given a scenario of a sample process, evaluate each step of the PFMEA team review</p> <p>Given a scenario of a sample process, evaluate the risk mitigation technique for each identified risk</p>
7	<p>Upon completion of this Course Summary, you will be able to recall the major highlights of the Failure Modes and Effects Analysis course.</p> <p>Reviews key points addressed during the course</p> <p>Discusses how the material in this course impacts your job</p>