



# DEFENSE ACQUISITION UNIVERSITY

## CMQ 100 - Quality Assurance Basics

140620

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

<b>1</b>	<b>Identify fundamental concepts of quality assurance (QA) and the role and responsibilities of the Quality Assurance Specialist (QAS)</b>
	Recognize fundamental concepts of quality assurance
	Identify the primary responsibilities of the Quality Assurance Specialist
<b>2</b>	<b>Identify applicable government and supplier requirements for quality assurance as described in the FAR/DFARS</b>
	Summarize the relationship between FAR/DFARS and quality assurance
	Recognize key quality assurance-related provisions and policies of the FAR/DFARS
<b>3</b>	<b>Identify the importance of a process approach to quality assurance</b>
	Define the process approach to quality assurance
	Define process mapping and the information that goes into process mapping
<b>4</b>	<b>Define two continuous improvement techniques for ensuring the government receives quality products: Six Sigma and Lean manufacturing</b>
	Define Six Sigma and its fundamental concepts
	Define Lean manufacturing and its fundamental concepts
<b>5</b>	<b>Identify the purpose and importance of proper calibration</b>
	Define key terms related to calibration, including metrology, traceability, and calibration
	Identify the purpose of calibration reviews
<b>6</b>	<b>Identify tools and measurement standards used to perform quality measurements</b>
	Identify the two main categories of tools used in measurement
	Identify the three measurement standards used in quality
<b>7</b>	<b>Identify important elements of technical drawings</b>
	Identify the common types of technical drawings
	Recognize the different component views used in technical drawings
	Identify common elements of a technical drawing layout
<b>8</b>	<b>Identify common geometric dimensioning and tolerancing (GD&amp;T) terms and symbols</b>
	Define GD&T
	Identify several common GD&T symbols
	Recognize the meaning of common GD&T terms
<b>9</b>	<b>Identify the purpose and importance of statistical sampling</b>
	Define terms associated with statistical sampling
	Identify the purpose of sampling in industry
	Identify standards for statistical sampling
<b>10</b>	<b>Identify the activities and data analysis tools used to determine the supplier's performance</b>
	Identify the importance of quality evaluation data
	Identify the three types of quality evaluation data that must be collected
	Identify data analysis graphs commonly used in the quality environment
<b>11</b>	<b>Identify the purpose of, and common tools used for, root cause analysis</b>
	Define root cause analysis
	Identify root cause analysis tools
<b>12</b>	<b>Identify the importance of preventing counterfeit parts from being presented to the government for acceptance</b>
	Identify risks associated with counterfeit parts
	Recognize supplier processes that prevent counterfeit parts from being presented for government acceptance
<b>13</b>	<b>Identify techniques that contribute to the success of a quality assurance team</b>
	Define the stages of team development
	Identify meeting management activities that help ensure effective meetings
	Identify three common methods for helping teams reach consensus
	Recognize strategies for effective conflict resolution