



DEFENSE ACQUISITION UNIVERSITY

PQM 101 Production, Quality, and Manufacturing Fundamental

090204

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

1	<p>Given a scenario, accurately identify IPT/IPPD functions and the input of manufacturing and quality required to meet the user's needs through integrated management planning.</p> <p>Identify key elements of manufacturing process planning.</p> <p>Identify key elements of quality assurance planning</p>
2	<p>Given choices, correctly identify the basic criteria and elements of a manufacturing and quality assurance system</p> <p>Recognize the concept of control systems and its relationships to quality and productivity, given the role in the design phase.</p> <p>Recognize the definitions of a product's key characteristics, a process' key characteristics and capability analysis.</p> <p>Identify key fundamental elements of a manufacturing system.</p> <p>Recognize the elements of an effective quality assurance system</p> <p>Recognize the role production and quality assurance personnel perform in the demilitarization property.</p>
3	<p>Given various scenarios and problems, correctly apply mechanics of problem-solving tools and perform required calculations.</p> <p>Recognize the purpose of using the seven basic statistical methods.</p> <p>Match which tools are most appropriate for use in process identification.</p> <p>Distinguish the advantages and disadvantages of using attributes or variable data.</p> <p>Describe the difference between specification limits and process control limits</p> <p>Describe the difference between process capability and process performance.</p> <p>Perform analytical process evaluations utilizing process control limits.</p>
4	<p>Given various selections, correctly recognize the output of various electronic tools.</p> <p>Identify the need for new tooling concepts, and list the advantages and dangers when employing these tools</p> <p>Describe the purpose, components, and benefits of Flexible Computer Integrated Manufacturing Systems (FCIM).</p> <p>Describe Virtual Prototyping and identify its key components.</p> <p>Identify the policies, advantages and applications for Modeling and Simulation.</p>
5	<p>Given various scenarios, correctly recognize the policies and procedures for avoiding improper business practices and conflicts of interest.</p> <p>Recognize various situations for avoiding improper business practices and conflicts of interest.</p> <p>Recognize the process/procedure for solving ethical problems.</p>
6	<p>Given choices, correctly distinguish the role of manufacturing and quality in the source selection process in and IPT environment.</p> <p>Recognize the purpose and key events of the Source Selection Process.</p> <p>Describe the role of manufacturing and quality in developing RFPs and evaluating potential contractor proposals</p> <p>Describe the role Production and Quality Assurance has during a Pre-Award Survey</p> <p>Identify the basic types of contracts, warranties and incentives.</p> <p>Identify the various contract types and associated incentives, including other incentive approaches such as award fees and performance incentives.</p> <p>Identify the basic warranty and the statutory requirements imposed upon DoD.</p>
7	<p>Recognize the basic elements of the contract administration process.</p> <p>Recognize the relationship between the delegation process and the functions who interface with it, such as the Program Office, Contract Administration Office and technical activities.</p> <p>Identify the contract administration service functions applicable to production and quality assurance.</p> <p>Identify the elements of the contract administration process, including automatic delegation in accordance with (IAW) the FARs/DFARs.</p> <p>Recognize the role of the Post Award Orientation Conference</p>
8	<p>Given a scenario, conduct an analysis by calculating a progress payment and a physical progress review for completion percentage.</p> <p>Calculate a Progress Payment and a physical completion rate.</p> <p>Recognize the requirements for technical support to negotiations (analysis of contractor cost proposals).</p>



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	<p>Recognize the role production and quality assurance personnel have in the IPPD/IPT context, when Earned Value requirements are invoked in a contract.</p> <p>Describe the tools used by manufacturing and quality specialists in evaluating contractor's proposals.</p> <p>Identify the purpose of conducting technical evaluations.</p> <p>Identify the role of fact-finding in the proposal evaluation process.</p> <p>Define Price Analysis, Cost Analysis and Cost Realism and understand the differences between them.</p> <p>Describe supporting contract administration, including responsibilities and when it may be required.</p> <p>Describe the functions, applicability, requirements and responsibilities for production surveillance.</p> <p>Identify the policies governing the use of progress payments as a means of contract financing.</p>
9	<p>Given examples, recognize the impact of current DoD policies as they relate to Industrial capabilities IAW the defense Industrial Capabilities Handbook.</p> <p>Identify current DoD policies relative to Industrial Capabilities.</p> <p>Identify the roles and responsibilities of the technical specialist relevant to industrial capabilities.</p>
10	<p>Recognize the DoD acquisition risk management process within and IPPD/IPT environment.</p> <p>Recognize current Department of Defense risk management policy for acquisition programs.</p> <p>Identify the basic categories and examples of risk for acquisition programs.</p>
11	<p>Given the elements of various <u>Environment, Safety and Health Planning (ESH)</u> laws and regulations, determine the impacts they have on production and quality management.</p> <p>Identify key ESH laws and regulations.</p> <p>Identify the elements of MIL-STD-8882C and NAS411.</p> <p>Recognize the impact of ESH management on the roles and responsibilities of the production and quality manager.</p> <p>Recognize personal, government, and contractor liability under ESH laws and regulations.</p>