



# DEFENSE ACQUISITION UNIVERSITY

## PQM 201A, Intermediate Production, Quality, and Manufacturing

110202

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

<b>1</b>	<p><b>Given a DoD systems acquisition scenario, the student will be able to relate the impact of the on-going and/or new acquisition reform initiatives to the current acquisition life cycle and production and quality management concerns.</b></p> <p>Identify where to find new and updated acquisition policy concerning production and quality management.</p> <p>Identify where to find current acquisition best practices concerning production and quality management.</p> <p>Identify where to receive online short training courses concerning production and quality management topics.</p> <p>Identify where to find articles on acquisition topics concerning production and quality management topics.</p> <p>Identify where to obtain the current version of the Integrated Defense AT&amp;L Life Cycle Management Chart.</p>
<b>2</b>	<p><b>Given an capabilities development document and data from earlier phases of the acquisition life cycle, the student, working as a member of an IPT, should be able to prepare the following sections of a Request for Proposal for a major weapon system: C (Performance Specification, Statement of Objectives); E (Contract Quality Requirements); L (Instructor to Offerors); and M (Evaluation factors for award).</b></p> <p>Identify the purpose, policy and procedures for conducting Market Research.</p> <p>Recognize performance specification requirements concerning quality and producibility.</p> <p>Recognize the statement of objective and statement of work requirements concerning quality and producibility.</p> <p>Select the appropriate Contract Quality Requirements to include in an RFP.</p> <p>Identify appropriate inputs to Sections L and M of an RFP to address production, quality, and manufacturing criteria.</p>
<b>3</b>	<p><b>Given a sample integrated management plan, the student should be able to analyze the adequacy of the details in the manufacturing and quality aspects IAW DoD 5000 series, FAR/DFARS and commercial quality and production planning methods.</b></p> <p>Identify the elements of a good manufacturing plan.</p> <p>List the steps required to develop a manufacturing plan.</p> <p>List the steps in determining a make-or-buy decision for manufacturing planning.</p> <p>Identify the functions that are the responsibility of the quality technician.</p> <p>Identify the typical techniques of an effective quality system.</p>
<b>4</b>	<p><b>Given a manufacturing scenario and materials, demonstrate Lean Enterprise practices.</b></p> <p>Identify the principles and benefits associated with lean manufacturing.</p> <p>Recognize the concepts of Quality Function Deployment (QFD).</p> <p>Recognize the definitions of product key characteristics and process key characteristics.</p>
<b>5</b>	<p><b>Given a bill-of-materials, manufacturing plan, contract schedule, approved progress payment requests and the results of a physical inventory count, the student, following the manufacturing plan, should be able to analyze the contractor's production progress and make a recommendation regarding continuing contract financing.</b></p> <p>Given the results of a physical progress review; analyze the data to determine if contract financing should continue.</p> <p>Identify the different methods of estimating cost, such as the analogy method, parametric method, and engineering method.</p> <p>Compute the learning curve rates, rates of learning, and production times based on learning curve theory.</p> <p>Select the appropriate method of cost estimating based on available contractor data and the acquisition environment.</p> <p>Identify the elements of Activity Based Costing (ABC) that result in improved cost estimating accuracy.</p> <p>Apply the ABC method to a given cost-estimating scenario.</p> <p>Recognize the problems associated with current labor-based cost accounting systems and ABC methods.</p>
<b>6</b>	<p><b>Given examples, the student should be able to assess the effectiveness of manufacturing and quality systems and processes IAW DoD 5000.1, DoD 5000.2-R, DFARS MMAS and non-government quality standards.</b></p> <p>Identify the material demand types within Material Management.</p> <p>Recognize the definitions of MRP and MRPII.</p> <p>Identify the material management functions.</p> <p>Given inventory metrics; calculate the economic order quantity.</p> <p>Identify the Just-in-Time inventory characteristics.</p>
<b>7</b>	<p><b>The student should be able to use audit principles to evaluate a company's quality manual.</b></p>



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	Identify the basic concepts relating to control of non-conforming product.
	Identify the activities associated with various audit techniques.
<b>8</b>	<b>This lesson lists the policies and procedures for avoiding improper business practices and conflicts of interest.</b>
	Identify the government policies concerning ethics and standards of conduct, and
	Identify procedures for avoiding improper business practices and conflicts of interest.