DEFENSE ACQUISITION UNIVERSITY

PQM 201B, Intermediate Production, Quality, and Manufacturing

100622

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

1	Develop an integrated manufacturing plan, analyze the adequacy of the details of the manufacturing and quality aspects IAW DoD 5000 series, FAR / DFARS, and commercial quality and production planning models.
	Identify the elements of good manufacturing planning.
	Select the type of information required and apply the processes involved in creating a bill-of-materials, route sheets, and manufacturing plans.
	Identify the key elements of a work breakdown structure.
	Develop a manufacturing and quality assurance plan for an assigned system.
	Identify the attributes of a producable design.
	Explain key elements of a Production Readiness Review
2	Given a scenario and materials, demonstrate lean enterprise practices.
	Describe the principles, concepts, benefits, and practices associated with Lean Manufacturing.
	Apply Lean manufacturing precepts to a production environment
3	Given examples recognize the products of analytical tools and determine whether these tools and their products have been used properly IAW courseware products provided.
	Recognize the concepts of Design of Experiments (DOE) and the Six Sigma program.
	Perform a Process Capability and Process Performance Analysis and identify actions to be taken to improve process performance and reduce the amount of non-conforming product.
	Apply seven quality tools in a manufacturing context
4	Recognize key quality issues and determine the adequacy of a contractor's quality system.
	Identify the basic concepts relating to designing and managing quality attributes.
	Describe the activities associated with various audit techniques.
	Recognize advanced quality system tools.
	Describe quality assurance principles.
	Recognize the concepts of quality function deployment (QFD).
	Distinguish between the definitions of product key characteristics and process key characteristics.
	Describe the goals of the ISO 9000 series standards.
5	Given examples assess the effectiveness of Manufacturing systems and processes IAW DoDD 5000.1, DoDI 5000.2, and DFARS MMAS requirements.
	Identify the fundamental elements of manufacturing control systems such as MRP and MRP II.
	Recognize the concepts of control systems as they relate to production and quality management.
	Explain the fundamentals of the Theory of Constraints.
	Recognize other manufacturing and business concepts and practices, such as JIT, MRP/MRPII systems.
6	Given a Bill-of-Materials, Manufacturing Plan, contract schedule, approved progress payment requests, and the results of a physical inventory count following the manufacturing plan; Analyze the contractor's production progress and make a recommendation regarding continuing contract financing.
	Identify the elements of technical evaluations and relate them to the contractors cost estimating and accounting systems.
	Recognize the different methods of estimating cost, such as the comparison methods, engineering method, and learning curves.
	Select and apply the appropriate method of cost estimating based on available contractor data and the acquisition environment.
	Describe the policies and procedures governing the use of progress payments as a means of contract financing.
7	Relate the impact of on-going acquisition initiatives to current lifecycle, production and quality management concerns.
	Become familiar with the latest issues in the manufacturing industry.
	Become familiar with the latest issues in defense acquisition.