



Objectives Sheet

PQM 201B - Intermediate Production, Quality, and Manufacturi

Course Learning/Performance Objectives followed by enabling learning objectives

PQM 201B.U01.01	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.
PQM 201B.U01.01.01	Identify the elements of good manufacturing planning.
PQM 201B.U01.01.02	Select the type of information required and apply the processes involved in creating a bill-of-materials, route sheets, and manufacturing plans.
PQM 201B.U01.01.03	Identify the key elements of a work breakdown structure.
PQM 201B.U01.01.04	Develop a manufacturing and quality assurance plan for an assigned system.
PQM 201B.U01.01.05	Identify the attributes of a producible design.
PQM 201B.U01.01.06	Explain key elements of a Production Readiness Review
PQM 201B.U02.01	Given a scenario and materials, demonstrate lean enterprise practices.
PQM 201B.U02.01.01	Describe the principles, concepts, benefits, and practices associated with Lean Manufacturing.
PQM 201B.U02.01.02	Apply Lean manufacturing precepts to a production environment
PQM 201B.U03.01	Given examples recognize the products of analytical tools and determine whether these tools and their products have been used properly IAW courseware products provided.
PQM 201B.U03.01.01	Recognize the concepts of Design of Experiments (DOE) and the Six Sigma program.
PQM 201B.U03.01.02	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.
PQM 201B.U03.01.03	Apply seven quality tools in a manufacturing context
PQM 201B.U04.01	Recognize key quality issues and determine the adequacy of a contractor's quality system.
PQM 201B.U04.01.01	Identify the basic concepts relating to designing and managing quality attributes.
PQM 201B.U04.01.02	Describe the activities associated with various audit techniques.
PQM 201B.U04.01.03	Recognize advanced quality system tools.
PQM 201B.U04.01.04	Describe quality assurance principles.
PQM 201B.U04.01.05	Recognize the concepts of quality function deployment (QFD).
PQM 201B.U04.01.06	Distinguish between the definitions of product key characteristics and process key characteristics.
PQM 201B.U04.01.07	Describe the goals of the ISO 9000 series standards.
PQM 201B.U05.01	Given examples assess the effectiveness of Manufacturing systems and processes IAW DoDD 5000.1, DoDI 5000.2, and DFARS MMAS requirements.
PQM 201B.U05.01.01	Identify the fundamental elements of manufacturing control systems such as MRP and MRP II.
PQM 201B.U05.01.02	Recognize the concepts of control systems as they relate to production and quality management.
PQM 201B.U05.01.03	Explain the fundamentals of the Theory of Constraints.
PQM 201B.U05.01.04	Recognize other manufacturing and business concepts and practices, such as JIT, MRP/MRP II systems.
PQM 201B.U06.01	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.
PQM 201B.U06.01.01	Identify the elements of technical evaluations and relate them to the contractors cost estimating and accounting systems.
PQM 201B.U06.01.02	Recognize the different methods of estimating cost, such as the comparison methods, engineering method, and learning curves.
PQM 201B.U06.01.03	Select and apply the appropriate method of cost estimating based on available contractor data and the acquisition environment.
PQM 201B.U06.01.04	Describe the policies and procedures governing the use of progress payments as a means of contract financing.
PQM 201B.U07.01	Relate the impact of on-going acquisition initiatives to current lifecycle, production and quality management concerns.
PQM 201B.U07.01.01	Become familiar with the latest issues in the manufacturing industry.
PQM 201B.U07.01.02	Become familiar with the latest issues in defense acquisition.