



# Objectives Sheet

## PQM 101 - Production, Quality, and Manufacturing Fundamentals

*Course Learning/Performance Objectives followed by enabling learning objectives*

<b>PQM 101.U01.01</b>	<b>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.</b>
PQM 101.U01.01.01	Identify key elements of manufacturing process planning.
PQM 101.U01.01.02	Identify key elements of quality assurance planning
<b>PQM 101.U02.01</b>	<b>Given choices, correctly identify the basic criteria and elements of a manufacturing and quality assurance system</b>
PQM 101.U02.01.01	Recognize the concept of control systems and its relationships to quality and productivity, given the role in the design phase.
PQM 101.U02.01.02	Recognize the definitions of a product's key characteristics, a process' key characteristics and capability analysis.
PQM 101.U02.01.03	Identify key fundamental elements of a manufacturing system.
PQM 101.U02.01.04	Recognize the elements of an effective quality assurance system
PQM 101.U02.01.05	Recognize the role production and quality assurance personnel perform in the demilitarization property.
<b>PQM 101.U03.01</b>	<b>Given various scenarios and problems, correctly apply mechanics of problem-solving tools and perform required calculations.</b>
PQM 101.U03.01.01	Recognize the purpose of using the seven basic statistical methods.
PQM 101.U03.01.02	Match which tools are most appropriate for use in process identification.
PQM 101.U03.01.03	Distinguish the advantages and disadvantages of using attributes or variable data.
PQM 101.U03.01.04	Describe the difference between specification limits and process control limits
PQM 101.U03.01.05	Describe the difference between process capability and process performance.
PQM 101.U03.01.06	Perform analytical process evaluations utilizing process control limits.
<b>PQM 101.U04.01</b>	<b>Given various selections, correctly recognize the output of various electronic tools.</b>
PQM 101.U04.01.01	Identify the need for new tooling concepts, and list the advantages and dangers when employing these tools
PQM 101.U04.01.02	Describe the purpose, components, and benefits of Flexible Computer Integrated Manufacturing Systems (FCIM).
PQM 101.U04.01.03	Describe Virtual Prototyping and identify its key components.
PQM 101.U04.01.04	Identify the policies, advantages and applications for Modeling and Simulation.
<b>PQM 101.U05.01</b>	<b>Given various scenarios, correctly recognize the policies and procedures for avoiding improper business practices and conflicts of interest.</b>
PQM 101.U05.01.01	Recognize various situations for avoiding improper business practices and conflicts of interest.
PQM 101.U05.01.02	Recognize the process/procedure for solving ethical problems.
<b>PQM 101.U06.01</b>	<b>Given choices, correctly distinguish the role of manufacturing and quality in the source selection process in and IPT environment.</b>
PQM 101.U06.01.01	Recognize the purpose and key events of the Source Selection Process.
PQM 101.U06.01.02	Describe the role of manufacturing and quality in developing RFPs and evaluating potential contractor proposals
PQM 101.U06.01.03	Describe the role Production and Quality Assurance has during a Pre-Award Survey
PQM 101.U06.01.04	Identify the basic types of contracts, warranties and incentives.
PQM 101.U06.01.05	Identify the various contract types and associated incentives, including other incentive approaches such as award fees and performance incentives.
PQM 101.U06.01.06	Identify the basic warranty and the statutory requirements imposed upon DoD.
<b>PQM 101.U07.01</b>	<b>Recognize the basic elements of the contract administration process.</b>
PQM 101.U07.01.01	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.
PQM 101.U07.01.02	Identify the contract administration service functions applicable to production and quality assurance.
PQM 101.U07.01.03	Identify the elements of the contract administration process, including automatic delegation in accordance with ( IAW) the FARs/DFARs.
PQM 101.U07.01.04	Recognize the role of the Post Award Orientation Conference
<b>PQM 101.U08.01</b>	<b>Given a scenario, conduct an analysis by calculating a progress payment and a physical progress review for completion percentage.</b>
PQM 101.U08.01.01	Calculate a Progress Payment and a physical completion rate.
PQM 101.U08.01.02	Recognize the requirements for technical support to negotiations (analysis of contractor cost proposals).
PQM 101.U08.01.03	Recognize the role production and quality assurance personnel have in the IPPD/ IPT context, when Earned Value requirements are invoked in a contract.
PQM 101.U08.01.04	Describe the tools used by manufacturing and quality specialists in evaluating contractor's proposals.
PQM 101.U08.01.05	Identify the purpose of conducting technical evaluations.



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PQM 101.U08.01.06	Identify the role of fact-finding in the proposal evaluation process.
PQM 101.U08.01.07	Define Price Analysis, Cost Analysis and Cost Realism and understand the differences between them.
PQM 101.U08.01.08	Describe supporting contract administration, including responsibilities and when it may be required.
PQM 101.U08.01.09	Describe the functions, applicability, requirements and responsibilities for production surveillance.
PQM 101.U08.01.10	Identify the policies governing the use of progress payments as a means of contract financing.
<b>PQM 101.U09.01</b>	<b>Given examples, recognize the impact of current DoD policies as they relate to Industrial capabilities IAW the defense Industrial Capabilities Handbook.</b>
PQM 101.U09.01.01	Identify current DoD policies relative to Industrial Capabilities.
PQM 101.U09.01.02	Identify the roles and responsibilities of the technical specialist relevant to industrial capabilities.
<b>PQM 101.U10.01</b>	<b>Recognize the DoD acquisition risk management process within and IPPD/IPT environment.</b>
PQM 101.U10.01.01	Recognize current Department of Defense risk management policy for acquisition programs.
PQM 101.U10.01.02	Identify the basic categories and examples of risk for acquisition programs.
<b>PQM 101.U10.02</b>	<b>Given the elements of various Environment, Safety and Health Planning (ESH) laws and regulations, determine the impacts they have on production and quality management.</b>
PQM 101.U10.02.01	Identify key ESH laws and regulations.
PQM 101.U10.02.02	Identify the elements of MIL-STD-8882C and NAS411.
PQM 101.U10.02.03	Recognize the impact of ESH management on the roles and responsibilities of the production and quality manager.
PQM 101.U10.02.04	Recognize personal, government, and contractor liability under ESH laws and regulations.