



# DEFENSE ACQUISITION UNIVERSITY

## CME 230 - Production Planning & Control

161001

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

<b>1</b>	<b>Given Defense Contract Management Agency policies and related Production, Planning and Control models and processes, interpret manufacturing system concepts associated with Production, Planning and Control</b>
	Relate how manufacturing system concepts connect to the Production, Planning and Control models
	Relate how discrepancies between the Defense Contract Management Agency's Production, Planning and Control concepts and terminology and those used by contractors can affect communication
	Recognize Federal Acquisition Regulations, Defense Federal Acquisition Regulations, and Defense Contract Management Agency Regulations pertinent to Production, Planning and Control
<b>2</b>	<b>Given Defense Contract Management Agency Production, Planning and Control scenario and background information, classify Production, Planning and Control risks using assigned tool sets</b>
	Recognize the Production Planning and Control elements of the Defense Contract Management Agency Manufacturing Supplier Risk Assessment Tool
	Interpret the sections of the Risk Management Guide for Department of Defense Acquisition that apply to Defense Contract Management Agency's Production, Planning and Control processes
	Recognize the Risk Reporting Matrix
<b>3</b>	<b>Construct a surveillance plan</b>
	Illustrate how risk identification tools are used to identify contract risk
	Produce an Ishikawa diagram
	Interpret Contractor Metrics
	Relate how Manufacturing & Production Instruction-204 applies to Production, Planning, and Control processes
	Prepare a SWOT Analysis
	Apply the Production, Planning, and Control Supplemental Checklist to setting initial Production, Planning, and Control risk assessment ratings for the Manufacturing Supplier Risk
	Interpret best practices for communicating with customers.
	Apply Defense Contract Management Agency's Production, Planning, and Control best practices to your surveillance plan
	Construct a Manufacturing Supplier Risk Assessment
<b>4</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, apply the initial Production, Planning and Control processes for surveillance to associated contractor performance</b>
	Discuss information presented in the Production, Planning and Control pre-course assignments (i.e., terms, processes and tools)
<b>5</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, implement a long term plan considering the resource planning, scheduling, and financial aspects of a project</b>
	Apply available reports and tools to establish a long-term risk rating for how contractors manage their sub-tier suppliers
	Translate manufacturing observations to Production, Planning and Control strategic planning processes
<b>6</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, develop a surveillance strategy for strategic contractor processes</b>
	Apply metrics derived from identifying the root causes of inadequacies in a contractor's Demand Planning to your surveillance plan
	Apply metrics derived from identifying the root causes of inadequacies in a contractor's Resource Requirements Planning to your surveillance plan
<b>7</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, document how contractor material management Production, Planning and Control processes affect Defense Contract Management Agency surveillance activity</b>
	Discuss how Master Production Schedule inaccuracies impact contract deliverables
	Translate manufacturing observations to Production, Planning and Control Master Production Scheduling process and schedule issues
<b>8</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, demonstrate how the Material Requirements Planning process manages changes in production demand and supply</b>
	Discuss symptoms of inadequate Material Requirements Planning
	Explain how backward scheduling is used to maintain Material Requirements Planning adequacy
	Interpret a Material Requirements Planning record signals /metrics
<b>9</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, apply best practices in material systems management to identify inventory issues affecting contract deliverables</b>
	Assess a contractor's lead time practices and policies
	Interpret how an inventory record's entries affect Production, Planning and Control
	Interpret how contractor's Bill of Material document control practices and policies relate to on-time delivery



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	Compare BOMs across contractor departments for completeness, consistency, and correctness
	Explain symptoms of an inadequate inventory processes
	Assess how a contractor's inventory documentation control practices and policies affect meeting contract requirements
<b>10</b>	<b>Given symptoms in Short Term, Intermediate Term, and Long Term Production, Planning and Control processes, assess inadequate Resource and/or Capacity plans</b>
	Given capacity symptoms ,assess root causes for risks in each Production, Planning and Control time horizon
	Illustrate how metrics define capacity processes
	Assess Resource and Capacity planning across the Production, Planning and Control system for consistency and correctness
<b>11</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, identify manufacturing activities that affect delivery performance in a job shop and repetitive environment</b>
	Describe the difference between a Master Schedule, Master Production Schedule, and Production Schedule
	Describe how Lead Time, Batch Size, Acceptance Testing and Due Dates may be validated against contractor practices
<b>12</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, relate how manufacturing schedules interface with Production, Planning and Control processes</b>
	Identify operational support activities
	Relate how a contractor's shop floor operates based on the dispatch rules employed
	Describe the scheduling differences between job shop and repetitive
	Interpret shop-floor terminology
	Identify how product quantities impact shop floor activities
	Describe the differences between a router and traveler
	Explain the criticality between the scheduled production order and capacity
	Determine the adequacy of the contractor's contingency planning to safeguard on-time delivery
<b>13</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, conduct analysis of the contractor's processes and practices</b>
	Recognize preparatory steps for an on-site visit
	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, demonstrate an onsite surveillance visit</b>
	Given surveillance considerations, develop questions to elicit contractors' ability to identify and respond to risks
	Apply the Plan, Do Check, Act methodology to executing a surveillance plan
<b>14</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, analyze Production, Planning and Control data and observations collected from the contractor and at the contractor's site</b>
	Analyze contractor data and observations
	Analyze the elements of a contractor's Production, Planning and Control system based on observations during on-site visit
	Analyze effectiveness and progress of contractor corrective actions
	Identify updates to surveillance plan
<b>15</b>	<b>Given a Defense Contract Management Agency Production, Planning and Control scenario, carry out updates to the Production, Planning and Control surveillance plan based on data analysis</b>
	Generate a completed surveillance plan
	Apply proficiency to finalizing a surveillance plan
	Apply proficiency to creating a surveillance execution strategy