



ASSOCIATE IN PRODUCTION PLANNING AND INVENTORY CONTROL

Course	Production Planning and Inventory Control
Instructor	Certified American Academy Instructor
Recognition	ANSI, ICE, CHEA, NOCA, NSBA, ACBSP, DIKTI
Descriptions	Production is a scientific process which involves transformation of raw material (input) into desired product or service (output) by adding economic value. For efficient, effective and economical operation in a manufacturing unit of an organization, it is essential to integrate the production planning and control system. Production planning and subsequent production control follow adaption of product design and finalization of a production process. Production planning and control address a fundamental problem of low productivity, inventory management, and resource utilization. Production planning and control are essential for customer delight and overall success of an organization. Production Planning is required for scheduling, dispatch, inspection, quality management, inventory management, supply management, and equipment management. Production control ensures that production team can achieve required production target, optimum utilization of resources, quality management, and cost savings. Production Planning is one aspect of Production Planning and Control dealing with basic concepts of what to produce, when to produce, how much to produce, etc. It involves taking a long-term view at overall production planning. A well thought Production Planning ensures that overall production process is streamlined providing following benefits: ○ Organization can deliver a product in a timely and regular manner ○ Supplier are informed well in advance for the requirement of raw materials.

	Always keep in mind the following questions to make Production Planning & Control decisions: •What should we produce, how much, and when? •How much can we produce? •How much do we have and how much do we need? When should we produce? Following this, participants will focus on inventory, especially in how it relates to engineering projects. participants will learn about the ABC analysis of inventory, the QR model, and the periodic inventory models. Participants will also learn how to establish optimum lot size formula and how to take into account the lead time in determining the reorder point. Finally, participants will be introduced to the model and the gradual replenishment model of inventory. The AAPM certification in Production Planning and Inventory Control PPIC field is similar to other professional courses, in that after meeting specified guidelines and following the required procedure, individuals are certified as capable of applying the knowledge in their respective field. The AAPM[®] certification process, administered by IBS International Board of Standards, identifies to the public that those individuals who have been authorized to use the AAPM[®] certification marks in the globe have met rigorous professional standards and have agreed to adhere to the principles of integrity, objectivity, competence, fairness, confidentiality, professionalism and diligence when dealing with clients.
Objectives	At the completion of the course participants shall benefit from the course such as:

	○ Explain What is meant by Production ○ Explain What is Production Planning ○ Explain What is Production Control ○ Explain the Objectives of Production Control ○ Describe External Factors affecting Planning & Control ○ Explain Other Functions in Production Planning & Control ○ Explain How to Improve Planning & Control Efficiency ○ Explain How to Measure Success of Planning & Control ○ List the Benefits of Production Planning & Control ○ Earn the Associate in PPIC certificate from American Academy of Project Management AAPM
Target Audience	This class is recommended for anyone interesting in learning about production planning and inventory management. This includes production manager, inventory and warehouse manager, and professional who are interested in PPIC.
Duration	3 days

COURSE DESCRIPTIONS

Module 1: Production Planning and Control

In this module, participants will be introduced to one of the important tools used in the management of an organization, in order to realize the organization's goals and objectives.

Module 2: Production Planning and Control: Scheduling and Priority Sequencing

In this module, participants will be introduced to the concluding part of production planning and control. Participants will learn about scheduling, priority sequencing, and the relative performance

Module 3: Inventory

In this module, you will be introduced to the meaning, fundamentals, and the models of inventory. Participants will learn about the Wilson model and the gradual replenishment model of inventory.



Module 4: Production Systems

When viewed at the most abstract level, might be said to be “transformation processes”—processes that transform resources into useful goods and services. The transformation process typically uses common resources such as labour, capital (for machinery and equipment, materials, etc.), and space (land, buildings, etc.) to effect a change.

Module 5: Types of Manufacturing Processes

Most manufacturing environments fit into one of five general categories. **Repetitive, Discrete, Job Shop, Process (batch), and Process (continuous).** Most companies use more than one of these environments to get a single product out the door.

Case Studies and Exercises

Case-based discussions will be conducted with topics related to the subjects of training, while for every chapter completed will be followed by comprehensive exercises focusing on the described subjects in the chapters.