
Production Management Controller

2017

IQCS

First written test

Field	Applied Industrial	Qualification	Production Management controller	Valid date	2017. 6. 1
Exam type	Multiple choice	No. of Ques.	50	Exam hour	90 minutes
Title	Sub title	Detail		No. of Ques.	Distribution
Basic Production control	1. Summary of Production control	<ul style="list-style-type: none"> • Concept of Production control • Concept of Process and System • Characteristic of Production and Service 		10	20%
	2. Object of Production Control	<ul style="list-style-type: none"> • Quality, Cost concept, Payment term, Flexibility • Environment, Safety 			
	3. Productivity	<ul style="list-style-type: none"> • Concept of Productivity • Type of Productivity • Productivity index 			
	4. Production Strategy	<ul style="list-style-type: none"> • Level of strategy • Competitive advantage element • Implementation of Production strategy 			
	5. Development of Production control	<ul style="list-style-type: none"> • Taylor system • Ford system • Development history of Production management system 			
Design of production system	1. Process design	<ul style="list-style-type: none"> • Concept of Process design • Product analysis • Type of process • Selection of process design • Process automation 		10	20%
	2. Equipment layout	<ul style="list-style-type: none"> • Layout of Equipment • Type of Equipment layout • Analysis and arrangement of layout 			
	3. Position of factory and facility	<ul style="list-style-type: none"> • Layout of factor and facility • Type of Equipment layout • Analysis and arrangement 			

		of layout		
	4. Design and estimate of task	<ul style="list-style-type: none"> • Concept of task design and measurement • Task measurement method 		
Production plan	1. Control of overall production plan	<ul style="list-style-type: none"> • Outline of overall production plan • Strategy of overall production plan • Cost and type of overall production plan • Technique of overall production plan 	10	20%
	2. Main plan	<ul style="list-style-type: none"> • Importance of main plan • Report process of main plan • Quantity available for an appointment • Draft plan for production ability 		
	3. Plan	<ul style="list-style-type: none"> • Importance of plan • Types of plan • Order plan 		
	4. Control of project plan	<ul style="list-style-type: none"> • Summary of project • Network model of PERT/CPM • Network report of PERT/CPM • PERT/COST Model 		
Operation of production control	1. Process Control	<ul style="list-style-type: none"> • Summary of process design • Product analysis • Type of process • Selection of process design • Automation of process 	20	40%
	2. Control of material and stock	<ul style="list-style-type: none"> • Control of material and purchase • Control of stock • Economical order and economical production method • Control system of stock 		
	3. Maintenance of facilities	<ul style="list-style-type: none"> • Outline of maintenance of facilities • Overall of maintenance facilities • Independence preservation, 5S • Effectiveness of maintenance facilities 		

2nd practical test

Field	Applied Industrial	Qualification	Production Management Controller	Valid date	2017. 6. 1
Exam type	Short answer	No. of Ques.	10-20	Exam hour	120 minutes
Title	Sub title	Detail		No. of Ques.	No. of Ques.
Basic Production control	1. Object of Production Control	<ul style="list-style-type: none"> • Understanding and establishment of production strategy • Establishment of production control target 		Depends on percentage	20%
	2. Productivity	<ul style="list-style-type: none"> • Understanding of concept of productivity • Understanding and setting of productivity index • Method of productivity improvement 			
	3. Production Strategy	<ul style="list-style-type: none"> • Understanding and establishment of production strategy • Production control and control system 			
	4. Production development	<ul style="list-style-type: none"> • Understanding of Taylor system • Understanding of Ford system • Process of production control development and trend 			
Practical design of production system	1. Process design	<ul style="list-style-type: none"> • Understanding of process design • Product analysis • process design 		Depends on percentage	20%
	2. Position of factory	<ul style="list-style-type: none"> • Understanding of facility factor • Analysis of position 			
	3. layout of facility	<ul style="list-style-type: none"> • Type of facility arrangement • analysis of arrangement 			
	4. Design task and measurement	<ul style="list-style-type: none"> • Concept and method of task measurement • Task measurement and standard time setting 			

Practical production plan	1. Plan for overall production	<ul style="list-style-type: none"> • Concept, strategy and method of overall production plan 	Depends on percentage	20%
	2. main plan	<ul style="list-style-type: none"> • Understanding of main plan • Establishment of main plan 		
	3. plan	<ul style="list-style-type: none"> • Understanding of project plan • Understanding of PERT/CPM 		
	4. Plan for project	<ul style="list-style-type: none"> • Understanding of project plan • Understanding of PERT/CPM • Establishment of project plan 		
Practical operation of production control	1. Process Control	<ul style="list-style-type: none"> • Understanding of process design • Product analysis and process design 	Depends on percentage	40%
	2. Control of material and stock	<ul style="list-style-type: none"> • Control of material and purchase • Control of stock • Calculation of EOQ, EPQ • Type and application of stock control 		
	3. Maintenance of facilities	<ul style="list-style-type: none"> • Concept of maintenance facilities • TPM • Independence preservation, 5S 		
	4. JIT•LEAN	<ul style="list-style-type: none"> • JIT system • Understanding of KANBAN system • Application of production method of LEAN 		
	5. MRP, ERP MRP•ERP	<ul style="list-style-type: none"> • Material requirement plan • Composition and operation of MRP • ERP 		
	6. Control of cost production	<ul style="list-style-type: none"> • Outline of control of cost production • Factors of cost production • Overall control of cost production 		