
Quality Technique Manager

2017

IQCS

First written test

Field	Quality area	Qualification	Quality Technique Manager	Valid date	2017. 6. 1
Exam type	Multiple choice	No. of Ques.	40	Exam hour	90 minutes
Title	Sub title	Detail		No. of Ques.	Distribution
Quality management	1. Quality management (general)	<ul style="list-style-type: none"> • Quality management introduction • Management and control • Quality management purpose and effect • Leadership • Quality management strategy • Quality management organizations and activity • Education and motivation 		15	37.5%
	2. Quality management system	<ul style="list-style-type: none"> • Quality management system certification • Quality management structure • Quality management principles • Quality assurance • Products liability 			
	3. Quality cost	<ul style="list-style-type: none"> • Prevention cost • Evaluation cost • Failure cost 			
	4. Standard and process ability	<ul style="list-style-type: none"> • What is standard? • Allowances and tolerance • Basic relation between process and standard • Process ability investigation and interpretation • Process ability index • Process performance index • Process capability proportion 			
	5. Measurement system	<ul style="list-style-type: none"> • Measurement system analysis 			
	6. Quality management innovation activity	<ul style="list-style-type: none"> • 6 sigma • Single PPM • Quality improving activity • 7 methods of QC • 7 methods of new QC 			
Industrial statistics	1. Probability and probability distribution	<ul style="list-style-type: none"> • Population and samples • Probability theory • Probability distribution 		10	25%
	2. Examination and estimation	<ul style="list-style-type: none"> • Basic theories of examination and estimation • Examination and estimation of 			

		indiscrete value • Examination and estimation of coefficient		
	3. Correlation and regression analysis	• What is correlation? • Examination and estimation of correlation • Regression analysis		
Control chart	1. Control chart introduction, coefficient value control chart, control chart judging and interpretation, control chart performance and fixing	• Control chart introduction • Control chart type and drawing • Control chart condition judging • Control chart Process interpretation • Performance of control chart and fixing	10	25%
Quality technique practice	1. Each category, check sheet, Pareto gram, characteristic factors chart, histogram, scatter plot, graph	• Drawing practice of each technique • Managing and analyzing of each technique • Practice data analysis and result	5	12.5%

2nd practical test

Field	Quality area	Qualification	Quality Technique Manager	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.	Distribution
Industry statistics	1. Data collection and management method	<ul style="list-style-type: none"> • Parameter estimation • Population understanding 		Depends on percentage	100%
	2. Probability and probability distribution	<ul style="list-style-type: none"> • Basic probability calculation • Indiscrete value, coefficient value distribution understanding 			
	3. Examination and estimation	<ul style="list-style-type: none"> • Average and variances test and estimation • Coefficient value examination and estimation 			
	4. Correlation regression analysis	<ul style="list-style-type: none"> • Two variances correlation digitization and straight line estimation • Correlation examination and estimation 			
Quality technique practice	1. Each category, check sheet, Pareto gram, characteristic factors chart, histogram, scatter plot, graph	<ul style="list-style-type: none"> • Drawing practice of each technique • Managing and analyzing of each technique • Practice data analysis and result 		Depends on percentage	100%
Control chart practice	1. Control chart drawing and interpretation	<ul style="list-style-type: none"> • Indiscrete value, coefficient value drawing and interpretation • Explanation of control chart terms 			
	2. Control chart performance and fix	<ul style="list-style-type: none"> • Control chart performance estimation • Change in group, change between group estimation, process performance measure • Control coefficient, control chart examination and estimation 			

General quality management	1. General quality management	<ul style="list-style-type: none">• Understand about quality cost• Able to calculate and understand about tolerance & allowable error of product standard.• Able to calculate and interpret process capability index / process performance index• Acquire of basic ability for 6 sigma	Depends on percentage	100%
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