Analytical Tools for Improvements

Sripadhmam Sunday Supersixers

SSS # 99/00 Dt. 24-10-2021

#	Statement	True or False
1	"Histogram" is the first statistical SPC technique	
2	Matrix data analysis diagram prefers "Y-Shaped Matrix Diagram"	
3	In Likert scale, " the d bar" denotes the arithmetic mean of the ranges	
4	Box plot will be drawn only horizontally	
5	Tree diagram is also called as Hierarchy Diagram	
6	The most commonly used data matrix is L&T shaped	

Scroll below for answers

Analytical Tools for Improvements - Answers

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6	The most commonly used data matrix is L&T shaped	**True**

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2	QMS ISO 9001:2015 Stage 1 - a base for IATF 16949:2016 (6 hours video duration)	Fundamentals What is ISO ? Seven Management principles Process approach & PDCA cycle Certification & Documentation over view Clauses overview Link between ISO 9001 & IATF 16949 ISO 9001:2008 Vs ISO 9001:2015
3	Analytical Tools for Improvements Stage 1 - 7QC & New 7QC Tools (4 hours 20 mins video duration)	Base 1 Base 2 Check sheet Pareto Diagram Stratification Flow Charts Affinity Diagram Relation Diagram
4	Analytical Tools for Improvements Stage 2 - 7QC & New 7QC Tools (4 hours 50 mins video duration)	Histogram Normality test Box plot History of New 7 QC tools Tree diagram Matrix diagram Matrix Data Analysis Likert scale methodology

5	Problem Solving Methodology (7 hours video duration)	Basics Fundamentals Tools & Techniques used A deep dive on 12 step approach A case study 8D methodology Introduction to DMAIC Good PSM practises
6	Statistical Process Control (14 hours video duration)	Statistics & link to Engineering Types of Data Concepts of Variation Histogram & Types Z Scale & area under normal curve Initial Process Study (Ppk) Process & Machine Capability Homogenization Cpk study & Non-normal distribution Types of control charts
7	Global 8D PSM (8 hours 45 mins video duration)	Introduction to 8D PSP Origin of 8D approach Customer Focused PDCA cycle Linkage of 8D to ISO & IATF Standards Advantages & Challenges in 8D Each D and the activities in each D P Cat & R Cat approaches Types of Root-causes Implementation of Remedial actions Statistical tools related to each D 5 Why – A deep dive Handling the Side-effects Standardization : Ways and means

8	Process & Machine Capability Studies (5 hours video duration)	Introduction Origin of Statistics Fundamentals Concept of variation & stability of Process Significance of Sigma factor Six sigma & Process capability Z scale methodology Ppk study & Machine capability
9	APQP & PPAP (14 hours video duration)	Origin of APQP Basic concepts & Principles Linkages to IATF 16949:2016 Techniques of APQP process Phase 4 of APQP : Linkage to PPAP Successful PPAP through structured APQP Process Five Phases of APQP – with exercises Control plan - Creation & management PPAP – How to interpret & Implement ? Situations Analysis on PPAP

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