

# Analytical Tools for Improvements - Statements



Sripadhmam Sunday Supersixers

SSS # 82/00 Dt. 22-11-2020

| # | 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 $\bar{d}$ 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

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

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## List of YouTube Video Courses

| # | Course name                               | Video runtime | Course fee (Rs.) |
|---|---|---------------|------------------|
| 1 | Control Plan Methodology                  | 1 hr 40 mins  | 1,200            |
| 2 | QMS ISO 9001:2015 Stage 1                 | 6 hrs         | 1,500            |
| 3 | Analytical Tools for Improvements Stage 1 | 4 hrs 20 mins | <b>FREE</b>      |
| 4 | Analytical Tools for Improvements Stage 2 | 4 hrs 50 mins | 1,500            |
| 5 | Problem Solving Methodology               | 7 hrs         | 1,950            |
| 6 | SPC                                       | 14 hrs        | 799              |
| 7 | Global 8D                                 | 14 hrs        | 799              |
| 8 | Process & Machine Capability Studies      | 5 hrs         | 1,950            |
| 9 | APQP & PPAP                               | 14 hrs        | 799              |

- + 30 days access for every course
- + e-book & workbook will be given for long term usage
- + Self Assessment test & Final Qualification test
- + e-Certificate

Course contents



|   |  |   |
|---|--|---|
| 1 | <p>Control Plan methodology as per IATF 16949:2016</p> <p>(1 hour 40 mins video duration)</p>                      | <p>Fundamentals</p> <p>Preparation of Control Plan</p> <p>Types of Processes</p> <p>How to construct control plan ?</p>   |
| 2 | <p>QMS ISO 9001:2015 Stage 1 - a base for IATF 16949:2016</p> <p>(6 hours video duration)</p>                      | <p>Fundamentals</p> <p>What is ISO ?</p> <p>Seven Management principles</p> <p>Process approach &amp; PDCA cycle</p> <p>Certification &amp; Documentation over view</p> <p>Clauses overview</p> <p>Link between ISO 9001 &amp; IATF 16949</p> <p>ISO 9001:2008 Vs ISO 9001:2015</p> |
| 3 | <p>Analytical Tools for Improvements Stage 1 - 7QC &amp; New 7QC Tools</p> <p>(4 hours 20 mins video duration)</p> | <p>Base 1</p> <p>Base 2</p> <p>Check sheet</p> <p>Pareto Diagram</p> <p>Stratification</p> <p>Flow Charts</p> <p>Affinity Diagram</p> <p>Relation Diagram</p>   |
| 4 | <p>Analytical Tools for Improvements Stage 2 - 7QC &amp; New 7QC Tools</p> <p>(4 hours 50 mins video duration)</p> | <p>Histogram</p> <p>Normality test</p> <p>Box plot</p> <p>History of New 7 QC tools</p> <p>Tree diagram</p> <p>Matrix diagram</p> <p>Matrix Data Analysis</p> <p>Likert scale methodology</p>   |

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

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

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