

SIX SIGMA BLACK BELT CERTIFICATION PROGRAMME

July to Dec 2024

Venue: ACMA Office, Pune

Course Content & Programme

Module	Topics discussed	Days	Total Days
Module – 1 July 18, 19, 20	Welcome Remark & Introduction <ul style="list-style-type: none"> - How to Identify Problems for Solving using Shainin Methodology - Splitting Generic Problems into Specific Problems - Classification of problems into 4 categories 	1	3
	Phase -1 – Defining the problem <ul style="list-style-type: none"> - Understanding the problem - Phenomenon analysis - Past data analysis to identify the Possible cause(s) for the problem - Data stratification - Brainstorming - Machine hardware checking <p>Phase -2 – Measure and Analyze (Pinpointing the actual cause(s) leading to the problem using Shainin techniques) Techniques that will be discussed are: Tool # 1 – ISO Plot Tool # 2 – Attribute Agreement Analysis (AAA) Tool # 3 – Paired Comparison</p>	2	
Module – 2 Aug 23, 24	Project facilitation and review	1	2
	Tool # 4– Product/Process search Tool # 5 – Component Search	1	
Module – 3 Sept 23, 24	Tool # 6 – Modified Component Search Tool # 7 – Multi-vari analysis	1	2
	Tool # 8 – Variable Search	1	
Module – 4 Oct 7, 8, 9	Project review and Facilitation	1	3
	Tool # 9 – Variable search (Contd..) <ul style="list-style-type: none"> - Factorial analysis to find out the optimal setting - Using Minitab and Excel to find out the Optimal setting - Using Minitab for doing Multi-vari analysis <p>Tool # 10 – B vs C</p> <ul style="list-style-type: none"> - How to validate the pin-pointed cause(s) - Quantification of Improvement 	2	

Module	Topics discussed	Days	Total Days
Module – 5 Nov 18, 19, 20	Tool # 11 – B vs C - How to validate the pin-pointed cause(s) - Quantification of Improvement Tool # 12 – Variation analysis - Identification of monitoring and control method to sustain the improvement - Implementation of the control method Tool # 13 - Weibull Analysis to establish the life of the product	3	3
Dec 18,19	Factory visits to check the improvement projects	2	2
Module – 6 Dec 20,21	Presentation of the projects Final assessment and certification	1 1	2
Total days			17 days

Summary of Process Improvement tools that will be taught and applied in the projects

<i>S.no</i>	<i>Module</i>	<i>Tools</i>
1	Module – 1	Phenomenon analysis Trend analysis Data stratification Concentration chart ISO Plot Attribute Agreement Analysis Paired Comparison
2	Module – 2	Product/Process search Component Search
3	Module – 3	Modified Component search Multi-vari analysis Variable search
4	Module – 4	Factorial analysis Using Minitab to do Factorial analysis and finding out optimal setting Using Minitab to do Multivari analysis
5	Module – 5	B Vs C Variation analysis Weibull Analysis

Training schedule (July 2024 To Dec 2024)

Programme	July	Aug	Sep	Oct	Nov	Dec	
Training session	18, 19, 20 (M1)	23, 24 (M2)	23, 24 (M3)	7, 8, 9 (M4)	18, 19, 20 (M5)	20, 21 (M5)	
Factory visits						18, 19	
Total days	3	2	2	3	3	4	17 days

Who should attend

Function	Positions
Production	Production in-charge Factory head
Quality	Quality Engineer Quality Manager
Manufacturing Engineering	Manufacturing Process Engineers Manufacturing Process Managers
Corporate/Support Functions	Continuous Improvement engineers/managers Quality system implementers