


BLACK BELT CERTIFICATION PROGRAMME (LEVEL 1)
April to October, 2021
Launch & Module I: April 12 - 13, 2021
Virtual Training Program over WebEx Cisco Platform
Methodology

1. The training and facilitation will be done in 20 modules, with 3 hours of session each day.
2. There will be 9 training modules, 9 facilitation modules and 2 modules for final assessment and certification
3. Projects facilitation will be done simultaneously during the training
4. Teams can interact offline through mail or phone between the sessions for clarification of queries and can share the data collected
5. Certification will be done based on the Projects done and the Final assessment results

PROGRAM DETAILS

Session	Content	Type of session	Day	Time
1	Overview of Non-statistical DMAIC Process Selection of Projects Classification of Projects Identification of Team, baseline and target	Training	April 12 th	10:00-13:00
2	Measure Phase Identification of SSV's Tool # 1 – ISO Plot Tool # 2 – Attribute Agreement Analysis (AAA)	Training	April 13 th	10:00-13:00
3	Projects selection and Understanding facilitation	Facilitation	April 28 th	10:00-13:00
4	Projects selection and Understanding facilitation	Facilitation	April 29 th	10:00-13:00
5	Analyse Phase Tool # 3 – Paired Comparison	Training	May 11 th	10:00-13:00
6	Analysis Phase Tool # 4 – Product/Process Search Tool # 5 – Regression Analysis Tool # 6– Component Search	Training	May 12 th	10:00-13:00

7	Projects facilitation	Facilitation	June 1 st	10:00-13:00
8	Projects facilitation	Facilitation	June 2 nd	10:00-13:00
9	Analysis Phase Tool # 7 – Multi-vari analysis Tool # 8 – Monte-Carlo simulation	Training	June 8 th	10:00-13:00
10	Analysis Phase Tool # 9 – Variable Search	Training	June 22 nd	10:00-13:00
11	Analysis Phase Tool # 10 – Factorial Analysis and Finding Optimal setting	Training	June 23 rd	10:00-13:00
12	Projects Facilitation	Facilitation	July 8 th	10:00-13:00
13	Projects Facilitation	Facilitation	July 9 th	10:00-13:00
14	Improve Phase Tool # 11 – B vs C	Training	July 20 th	10:00-13:00
15	Control Phase Tool # 12 – Variation Analysis	Training	July 21 st	10:00-13:00
16	Projects Facilitation	Facilitation	Aug 9 th	10:00-13:00
17	Projects Facilitation	Facilitation	Aug 10 th	10:00-13:00
18	Projects Facilitation	Facilitation	Sep 6 th	10:00-13:00
19	Final Projects presentation	Facilitation	Oct 5 th	10:00-13:00
20	Final Quiz and Certification	Presentation	Oct 6 th	10:00-13:00

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

Phase	<i>Tools</i>
Define	Problem categorization flow diagram Phenomenon analysis Trend analysis Data stratification
Measure	Rejection trend Analysis Brainstorming rules for identification of potential causes
Analysis	ISO Plot Attribute Agreement Analysis Paired Comparison Product/Process search

	Regression Analysis using Minitab Component Search Multi-Vari Analysis Variable Search Factorial Analysis using Minitab to find out the Optimal setting
Improve	B vs C
Control	Variation analysis Pre-Control chart

Training schedule

Programme	Apr. 2021	May 2021	June 2021	July 2021	Aug. 2021	Sep. 2021	Oct. 2021
Training session	12,13 (M1,M2)	11,12 (M3,M4)	8 (M5) 22,23 (M6,M7)	20,21 (M8,M9)			5,6 (Quiz and Certification)
Project facilitation	28, 29		1, 2	8, 9	9, 10	6	
Total days	4	2	5	4	2	1	2

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