

Sl.No.	PROBLEM SOLVING STEPS (for QC Team)	MARKS
1	Identification of work related problem-(Unsolved)	5.00
2	Selection of problem	5.00
3	Define the Problem	10.00
4	Analysis of the Problem	10.00
5	Find out Cause	10.00
6	Root Cause Analysis	5.00
7	Data Analysis	10.00
8	Development of solution	10.00
9	Foreseeing Probable Resistance	5.00
10	Trial Implementation & Checking Performance	15.00
11	Regular Implementation	10.00
12	Follow Up / Review & Recurrence Prevention	5.00
	TOTAL MARKS	100.00

Sl.No.	PROBLEM SOLVING STEPS (for LQC Team)	MARKS
1	Selection of problem and its relevance to the concept	5.00
2	Define the problem/project Using Flow Diagram, Setting of Objectives and Target	15.00
3	Data collection (measurement) Understanding the problem by collecting Past/current Data related to problem (Using 4W – 1H, Stratification and any other appropriate tool)	20.00
4	Analysis of the data Identifying probable causes, root causes by validating based on data and analysis of causes	20.00
5	Solution, implementation & gain Developing Solutions, Using SCAMPER (Substitute, Combine, Adapt, Modify - also magnify and minify, put to another use, Eliminate, and Reverse), Trial Implementation and Final Implementation	30.00
6	Follow up & control Current status, Standardization, Horizontal Deployment	10.00
	TOTAL MARKS	100.00

Steps	LEAN SAFETY CIRCLE (Steps for LSCteam)	Max Marks
	Description	Accident/ Near Miss/ Hidden Hazard
Step-1	Initial Response/Project Selection	5
	a) Given by management/Team Selection	4
	b) Team Formation	1
Step-2	Define the problem:	10
	a) Total description of the problem/Incidence (Accident/Near Miss), if possible, with the help of Flow diagram	10
Step-3	Measure: Ascertain The Facts (Human, Physical, Systemic)	30
	a) Physical	6
	b) Human	6
	c) Systemic	6
	d) Approach for ascertaining the fact	6
	e) Develop The Chronology (Not valid for hidden hazard)	6
Step-5	Analysis: Bow Tia/ CE Diagram (using Why-Why Analysis)	25
	a) Physical	4
	b) Human	4
	c) Systemic	4
	d) Approach & logic to find out systemic causes	6
	e) Identify Gaps in The System	7
Step-7	Implementation: Recommend action /Solution and its implementation	15
Step-8	Control: Check sheet formation for periodical checking/Review	5
Step-9	Tangible/Intangible gain	10
TOTAL MARKS		100