

30th CHAPTER CONVENTION ON QUALITY CONCEPTS 2020



ORGANIZED BY

QUALITY CIRCLE FORUM OF INDIA
DURGAPUR CHAPTER SUB-CHAPTER GUWAHATI



Last Date of Submission of Case Studies

20th September, 2020

Result Declaration

Sunday 27th Sept , 2020



INVITATION

Dear Sirs,

Pray to almighty for your good health and a COVID-19 free India.

The whole world is facing the threat of this Pandemic Crisis and trying to combat and come out of this situation.

The Government guidelines is mainly emphasising on maintaining self hygiene and Social Distancing. Keeping this in mind it has been resolved by the Board of Directors of QCFI that this year there would be no Oral Case Study Presentation at the Chapter Conventions. Convention evaluation will be only on the basis of soft copy Pre-evaluation marks.

Teams need to send the Soft Copies of their Case Study in .PDF format THROUGH THEIR ORGANISATIONS ONLY (No individual submission will be accepted). The last date for submission of the same is 20th September, 2020. No submission will be accepted after this date.

The results will be declared on Sunday 27th September, 2020 and it will be send to the organisations through mail, along with Team Certificate as per their ranks GOLD/SILVER/BRONZE.

Your support and co-operation is highly appreciated and this will be our effort towards fighting the pandemic by avoiding Social gathering.

We understand that you may be disheartened because the hard work that your teams spend in preparing the wonderful case studies is not getting showcased, as done every year but your safe health is our priority and this will be our contribution and joint effort towards fighting this global crisis.

AB Chowdhury
Secretary

REGISTRATION FEE STRUCTURE FOR CCQC 20

Team wise Registration fee is Rs 5000/- including GST only.

(Rs. 4,240 /- + Rs. 760 /- GST)

[QC, QIT, LEAN QC, 5-S and any other category].

LAST DATE OF PAYMENT : 15th SEPTEMBER 2020

The amount may kindly be drawn in favour of "QCFI Durgapur Chapter ", payable at Durgapur within 15.09.2020. Result will be declared after full and final payment.

BANK DETAILS FOR DURGAPUR

Account No : 0450010109436,
Our Banker : UNITED BANK OF INDIA,
Branch : City Centre, ADDA Building, Durgapur - 713216
Branch code : 0450,
IFSC : UTB10 CIC980
MICR : 713027208
Our PAN No : AAAAQ0008P | GSTIN : 19AAAAQ0008P1ZG

CERTIFICATE WILL BE ISSUED AS PER AWARD CATEGORY

Category of Awards in the chapter level :- ♦ **GOLD** ♦ **SILVER** ♦ **BRONZE**
Award Category on Secured Marks during CCQC 2020 only.

MARKING SCHEME OF CCQC 2020 (As per HQ)

Teams securing marks equal to 60% and above shall be categorised as **"GOLD"**,
50% to below 60% **SILVER** ♦ Below 50% **BRONZE**.

Those who are in Gold and Silver categories are eligible for the NCQC,20

[Register Marks is also excluded for this year]

[An online Knowledge Test (M.M.-20 marks) will be taken on 26th Sept,2020 , the
time for which will be informed later]

EVALUATION CRITERIA OF QUALITY CIRCLE CASE STUDIES

| PROBLEM SOLVING STEPS | MARKS | TOTAL |
|---|-------|-------|
| 1. IDENTIFICATION OF WORK-RELATED PROBLEMS (UNSOLVED) | | |
| up to 19 | 1 | 5 |
| 20-29 | 2 | |
| 30-39 | 3 | |
| 40-49 | 4 | |
| 50 and above | 5 | |
| 2. SELECTION OF THE PROBLEM | | |
| A.B.C Categorization of the problems | 1 | 5 |
| Priority/Ranking Method | 2 | |
| Base used for Priority/Ranking | 2 | |
| 3. DEFINE THE PROBLEM | | |
| Milestone chart proposed | 1 | 10 |
| Flow diagram/pictorial diagram of the process | 2 | |
| Description of the problem with Labelled Diagram or Detailed Flow Diagram or any other creative way | 5 | |
| Objectives | 1 | |
| Goals/Target | 1 | |
| 4. ANALYSIS OF THE PROBLEM (MEASURE THE PROBLEM) | | |
| To see that required data/verbal data given for 4W+ 1 H Each W and H may have 2 marks (in case of allied 4 marks). H may be considered as how much also. | 10 | 10 |
| 5. IDENTIFICATION OF CAUSES AND PROBABLE ROOT CAUSES | | |
| A. Circle up to the age of two years may use Dispersion Analysis Type. B. Circle above the age of two years should use Cause Enumeration Type or Production Process Classification Type. By using Dispersion analysis type, they will be given marks out of 5 | | 10 |
| Proper Headers | 2 | |
| Causes. Sub-Causes, Sub-Sub Causes etc | 5 | |
| Marking/Listing the Probable Root Causes | 3 | |
| 6. ROOT CAUSES ANALYSIS (CAUSES EFFECTING TO THE PROBLEM) | | |
| by Use of appropriate method Specification vs Actual, GEMBA, Why-Why Analysis etc | 5 | 5 |
| 7. DATA ANALYSIS (VALIDATION OF ROOT CAUSES) | | |
| Collection of appropriate data for the validated root causes | 5 | 10 |
| Pareto diagram to know vital few and useful many causes, Stratification, in case of study is related to variation in process or product use Scatter Diagram, Histogram, Control Chart or any other graph or chart useful for analysis of data | 5 | |

EVALUATION CRITERIA OF SIX SIGMA CASE STUDIES

| PROBLEM SOLVING STEPS | MARKS | TOTAL |
|---|-------|------------|
| 8. DEVELOPMENT OF THE SOLUTION | | 10 |
| Minimum number of developed solutions may be 5. | 10 | |
| 9. FORESEEING PROBABLE RESISTANCE | | |
| Minimum number of probable resistances should be 5 along with the solution of identified probable problems. | 5 | 5 |
| 10. TRIAL IMPLEMENTATION AND CHECK PERFORMANCE | | |
| Use of PDCA | 5 | 15 |
| trial implementation | 5 | |
| Check performance | 5 | |
| 11. REGULAR IMPLEMENTATION | | |
| Present status | 5 | 10 |
| Overall gains- Tangible and intangible gains | 5 | |
| 12. FOLLOW UP AND REVIEW | | |
| Before and after activity chart | 1 | 5 |
| Follow up system developed | 2 | |
| Review results | 2 | |
| Total | | 100 |

EVALUATION CRITERIA OF ALLIED CONCEPTS- LQC, KAIZEN, SMED ETC

| STEP | MARKS | TOTAL |
|--|------------|------------|
| 1. SELECTION OF PROBLEM | | |
| By any appropriate method like Pareto Analysis, Pareto priority index, SMART analysis etc. In case of <u>problem given</u> by Management or instant problem taken or problem taken from problem bank, please mention (2 marks) and give the reason (3 Marks) | 5 | 5 |
| 2. DEFINE THE PROBLEM | | |
| Using Flow Diagram, Setting of Objectives and Target | 15 | 15 |
| 3. MEASUREMENT OF PROBLEM/PROBLEM ANALYSIS | | |
| Understanding the problem by collecting Past/current Data related to problem (Using 4W – 1H, Stratification and any other appropriate tool) | 20 | 20 |
| 4. FIND OUT PROBABLE CAUSES AND ROOT CAUSE | | |
| Identifying probable causes, root causes by validating based on data and analysis of causes | 20 | 20 |
| 5. DEVELOPMENT OF THE SOLUTION | | |
| 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 | 30 |
| 6. FOLLOW-UP AND REVIEW | | |
| Current status, Standardisation, Horizontal Deployment | 10 | 10 |
| TOTAL | 100 | 100 |

EVALUATION CRITERIA OF SIX SIGMA CASE STUDIES

| STEP | MARKS | TOTAL |
|---|-------|-------|
| 1. DEFINE | | |
| Business case/Voice of customer | 5 | 20 |
| Project charter | 10 | |
| SIPOC | 5 | |
| 2. MEASURE | | |
| Performance measures | 7 | 15 |
| Key Process parameters | 4 | |
| Key product parameters | 4 | |
| 3. ANALYSE | | |
| Identification of causes/Cause & Effect diagram | 10 | 25 |
| Validation of causes | 5 | |
| Identification of root causes | 5 | |
| Data collection/validation of root causes | 5 | |
| 4. IMPROVE | | |
| Creative solutions | 15 | 25 |
| Design of experiments/ Hypothesis testing | 10 | |
| 5. CONTROL | | |
| New/Up-dation of standards | 5 | 15 |
| Results/benefits | 10 | |
| TOTAL | | 100 |

EVALUATION CRITERIA OF SAFETY CIRCLE CASE STUDIES

1. A Safety related project of a Quality Circle participating in CCQC will be evaluated as per the Evaluation Criteria of Quality Circle case studies (12 Step Problem Solving Process)
2. In case, a project is taken under Lean Safety Circle (LSC), may be by the QC team (not through Quality Circle method of Selection of problem), and LSC team is formed, this will be evaluated as DMAIC method as in case of LQC.

EVALUATION CRITERIA 5-S – WORKPLACE MANAGEMENT

In case team has taken any specific problem on 5-S and solve it they must follow DMAIC method and evaluation will be done accordingly given above.

In case some Unit/Zone/Zones/Sub Zone/Sub-sub Zone has done excellent implementation of 5-S and management want to nominate the team for the presentation, use following Evaluation Criteria for such case studies.

EVALUATION CRITERIA OF SIX SIGMA CASE STUDIES

| STEP | MARKS | TOTAL |
|---|-------|-------|
| 1. INITIAL EFFORTS | | |
| 5-S organization structure | 3 | 15 |
| Initial Photographs | 5 | |
| Steps taken in zone/Sub zone before going for 1 st S | 7 | |
| 2. ACTIVITIES OF HOUSE KEEPING | | |
| Implementation of 1 st S | 10 | 20 |
| Implementation of 2 nd S | 5 | |
| Implementation of 3 rd S | 5 | |
| 3. IMPLEMENTATION OF 4 TH S | | |
| Development of standard practices | 5 | 10 |
| Follow-up of standard practices | 5 | |
| 4. AUDIT SYSTEM | | |
| Self-audit system | 5 | 15 |
| Management audit system | 10 | |
| 5. STATUS OF 5-S IMPLEMENTATION | | |
| Before/After Photographs | 5 | 25 |
| Tangible/intangible gains | 10 | |
| Status of Jagruti group | 5 | |
| Status of 5-S home | 5 | |
| 6. FOLLOW-UP AND REVIEW SYSTEM | | |
| Management actions for sustenance and growth of 5S | 10 | 15 |
| Special activities | 5 | |
| TOTAL | | 100 |

CONTACT :

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