

Institute of Industrial and Computer Management and Research (IICMR)



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Criterion 7 – Institutional Values and Best Practices

Key Indicator - 7.2 Best Practices

7.2: Best Practices

ISQ Report -2022



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Date: 05/11/2022



"ISQ- TOPS Convention-2022"
('Indian Society for Quality- Team Oriented Problem Solving'.)

Report

Date: 04/11/2022 to 04/11/2022
 Venue: MBA@IICMR Auditorium

3. Introduction:

ISQ, Pune Chapter in association with MBA@IICMR conducted a one-day contest on Team Oriented Problem Solving / improvement case studies / projects for executives from OEMs, tier 1 and 2 manufacturing companies, process industry and service sector organization's including information technology.

The program was attended by:

- a) Dr. Abhay Kulkarni Director, IICMR.
- b) Dr. Manisha Kulkarni HOD, MBA@IICMR.
- c) Ms. Sarika Joshi, President, ISQ, Pune Chapter.
- d) Mr. Santosh Bandal Hon. Secretary, ISQ, Pune Chapter.
- e) Dr. Parag Auty, EC Member, ISQ, Pune Chapter.
- a) Mr. Amitabh Mathur, President & M.D., Aptiv Components India Pvt. Ltd.

Jury Members'.

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- a) Mr. Prasad Shende, Trainer & Consultant, LearnEX Consulting Pvt Ltd.
- b) Mr. Rajendra Mhalgi, Freelance Consultant.
- c) Mr. Ranjeet Jadhav, Proprietor, Six Sigma Solutions.
- d) Mr. Tejas S Shah, Sr General Manager B & O Mahindra Logistics Ltd.
- e) Mr. Pravin Khollam, Dy.General Manager, Tata Motors Limited.
- f) Mr. Sudhir Laturkar, Head Quality, Business Excellence & ESG, Raychem RPG.



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- g) Mr. Sandeep Rane, General Manager, Mahindra CIE, Gears.
- h) Mr. Namdeo K. Shelke, Head Quality, Lear Automotive India Pvt. Ltd. Pune.
- a) Student Volunteers -MBA@IICMR and ISQ.
- b) Faculty members MBA@IICMR.
- Pan India Participants, national and state Level Audience and students of MBA@IICMR.

4. Main Objective:-

To promote scientific approach towards problem solving and team work, customer centric approach and technical and soft skills capability enhancement by sharing/learning through some of the best case studies from organizations of repute.

5. About:

Indian Society for Quality (ISQ) is a not-for-profit society established in 1996 to fill the need for a national forum for interaction among quality professionals, leaders, practitioners and academicians. ISQ is a non-partisan, independent body that attracts and invites individual members from business organizations, health care and educational institutions, government agencies and NGOs. Members share their knowledge and learn from each other. ISQ is thus engaged in both creating and disseminating knowledge.

Its mission is to "Contribute to the thriving of humanity in a healthy planet" ISQ is well linked to similar national quality bodies in other countries. It is a board member from its very inception and has represented India in the Asian Network for Quality (ANQ). ISQ is a national partner to International Quality Innovation Award initiated by Laatukeskus Excellence, Finland and Quality Sustainability Award promoted by International Academy for Quality. ISQ is the face of India in the world of quality.

6. The programme details:

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The competition is subdivided based on the methods/ tools employed during the problem solving as

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1. Basic Problem-solving:



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Methods include 7 QC Tools, Why Why analysis, 8D Methods, 4M, QC Story etc. Project has moderate level of scope ad complexity such as single defect on specific model or single station. Project has made impact on department or section level KPI.

2. Advanced problem-solving:

Usage of advanced level tools such as design of experiments, hypothesis testing, Multi-Vari, Good Bad Analysis, Innovation, TRIZ, Lean, TPM or Six Sigma Tools. Project has made impact on company level KPI or department level KPI. Project scope can be one product with multiple defects or multiple products with single defect, multiple process under consideration for analysis.

7. Schedule of progamme:

	ISQ Tops Progra	m Schedule : 04	4/11/2022
Topic	Start Time	End Time	Event
Desistantian and Seculificat	08:30:00	09:00:00	Registration
Registration and Breakfast	08:30:00	09 15 00	Breakfast
Inaugural Function (Auditorium First Floor)	09:30:00	10:30:00	Inaugural Function
Break	10:30:00	10:45:00	Assembling at classrooms
Session 1 (TI 01, 02, 03, GD Third floor)	10:45:00	13:00:00	
Break	13:00.00	14:00:00	Lunch & Networking
Session 2 TI 01,02, 03, GD Third floor)	14:00:00	16:00:00	
Break	16:00:00	16:15:00	Tea & Snacks
for Jury	16:00:00	16:45:00	Jury Award Finalize
for Participants	16:15:00	16:45:00	Lecture / Networking time
	16:45:00	16:50:00	Brief on recap of the day
	16:50:00	17:00:00	Jury insights
Valedictory Function	17:00:00	17:10:00	GoH introduction & Speech
(Auditorium First Floor)	17:10:00	17:25:00	CG introduction & Speech
	17:25:00	17:40:00	Awards
	17:40:00	17:45:00	Vote of Thanks

CMR Nigdl.
Pune - 411 044



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8. Team Participants in programme:

Basic Problem Solving:

Team Sr. No.	Company	Project Details
1	MAHLE ANAND Thermal Systems Pvt. Ltd.	Reduction of Not Disengagement (NDE) from 52% to 20% in VISCO clutch of overall series ID
2	Mahindra Accelo Nashik	To eliminate quality issue - line mark in Bolero Neo hood outer panel.
3	Lumax Auto Technologies Limited, Plo No. B-14/3, MIDC Waluj, Aurangabad, Maharashtra, 431136	t To reduce Capital investment for part Presence inspection system.
4	JSW Steel limited, Geetapuram, Dolvi, Taluka Pen, Dist. Raigad, M.H, India - 402107	Reduction in RB8 section setup time.
5	General Industrial Controls Pvt. Ltd. T- 107, M.I.D.C., Bhosari Pune 411026, Maharashtra, INDIA	Pending order value reduction.
6	Force Motors Ltd. Pithampur Mumbai - Pune Road Akurdi, Pune 411 035 Maharashtra, INDIA	Reduction in SMM by 7% (9.3 Min), from 131.5 Min to 122.2 min at G32 BSVI Gear box assembly line by Jan 2022.
	td; Pune	Improvement in Plant Availability by 55% to achieve the expected target of 99.99% and Plant Performance by 27% to achieve the target of 85% at CleanMax Solar Pune.
8 1	ata Motors	Reduction of Urea Quality & Level sensor defective
9 R	SB Transmissions (I) Ltd	To eliminate the rejection in hobbing process by improving quality.
	anasonic life solutions India Pvt Ltd, urvey no 32/1, Near Silver Industrial	To Reduce internal rejection of Ziva series

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	Estate, Bhimpore, Nani Daman 396210	switches
11	MSL Driveline Systems Ltd,P.B. No. 8, Plot No. 89/1A, MIDC, Satpur, Nashik- 422 007	To reduce the initial unbalance of W601 Model Propeller Shaft (XUV700 AT AWD Vehicle)
12	Indus Towers Limited 2 and 9th Floor, 901, Park Centra, Sector 30, Gurgaon, Gurgaon, Haryana,122001	Reduction of RM Failure during monsoon
13	Indus Towers Limited	Optimum Utilization of Mobile DG (MDG) through movement Algorithm
14	Tata Motors Ltd, CVBU, Pimpri Pune - 411 018	Improve No Touch DRR (Direct Run Rate) in ILCV Cab Assembly
15	TATA AUTOCOMP HENDRICKSON SUSPENSIONS PVT. LTD Gate No. 431/1, at village Medankarwadi, Chakan Alandi Road, Chakan, Pune – 410 501	Unique Solution for Spring dowel Pressing & it's confirmation
16	Panasonic life solutions India Pvt Ltd, Survey no 32/1, Near Silver Industrial Estate, Bhimpore, Nani Daman 396210	Customer delight through product Quality improvement and reduce Q-Loss
17	MAHLE ANAND Thermal Systems Pvt. Ltd.	Reduction of Core Cover Displacement issue in MQB Heater from 0.62% to 0.25%.
18	Lumax Auto Technologies Limited, Village Kuruli, Tal Khed, Plot G-8, G Block, Chakan Ind Area, Phase 3, Pune, Maharashtra, 410501	Customer complaints reduce by Elimination of Dent Damages in Frame tubes
19	Force Motors Ltd. Pithampur FORCE MOTORS LIMITED CIN: L34102PN1958PLC011172 Mumbai - Pune Road Akurdi, Pune 411 035 Maharashtra, INDIA	Reduction in Rejection of Engine Harness from 0.70% to 0.13% by May'21
20	Tata Motors Ltd, CVBU, Pimpri Pune Invoice address : Main Gate, Commercial Vehicle Business Unit Near	Elimination of Camber & bow issues in Long Member of Commercial Vehicles to avoid majo

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	KSB chowk, Nigdi Bhosari	consequential failures
	Road, Pimpri, Pune-411018	
21	Tata Motors Ltd, CVBU, Pimpri Pune	Elimination of delicate Vehicle Hose failures in Light Commercial Vehicles
22	MAHLE ANAND Thermal Systems Pvt. Ltd.	Reduction of tube & header leak from 0.65 to 0.13% in Ashok Leyland/tata model of EGR cooler
23	Indus Towers Ltd.	Reduction in Rectifier Module Failure (Akola)
24	Indus Towers Ltd.	Safe MDG Operation – Current Leakage Mistake Proofing
25	Indus Towers Ltd	Improvement in Site Automation by resolving reoccuring Problem of Airlocking in DGs
van	ce Problem Solving:	
1	Gabriel India Limited , 52-55, S.No. 102/3 -106, Sipcot, Phase - II, Moranapalli Village, Hosur, Tamil Nadu 635109	Reduce customer Noise defect ppm in Front fork.
2	Force Motors Ltd. Pithampur Mumbai - Pune Road Akurdi, Pune 411 035 Maharashtra, INDIA	Elimination of Screeching noise in the Steering system
3	Bharat Forge Ltd., Pune Cantonment, Mundhwa Pune – 411 036. INDIA	Die life improvement on Maxi 2000T in FMD 2
4	Fluid Controls Pvt Ltd Gat No 378/1,Talegaon Chakan Road, Village - Kharabwadi , Taluka - Khed, Dist. Pune 410501	Digitalization Of Lean Tools- Digital A3 Thinking
	JSW Steel limited, Geetapuram, Dolvi,	
5	Taluka Pen, Dist. Raigad, M.H, India - 402107	Improvement of Casting speed at CSP Caster
5 6	Taluka Pen, Dist. Raigad, M.H, India -	Improvement of Casting speed at CSP Caster Reduce Low Range Defect In An Electric Vehicle

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8	MAHLE ANAND Filter Systems Private Limited , Gat No. 410/411, Mauje Urawade, Tal. Mulshi, District Pune, 412 115 Maharashtra Pirangut, India	Reduction of 3 defects (PA-Start/End Packs, PA-Set Up & Without Glue) at Rotary line from 2.3% to 1.1% (0.079% to 0.048% of NSV by end Q3'2022 while holding the constant productivity
9	Mahindra Accelo Kanhe	To reduce rotor line rejection
10	Tata Motors	AIR PRESSURE TRANSDUCER DEFECTIVE Reduction
11	MAHLE ANAND Thermal Systems Pvt. Ltd.	Elimination of internal and 3 MIS Quality issue related to child part in Z101 / W153 condenser assembly by Sep'22.
12	Mahle Anand Thermal System Private Ltd., 29 Milestone, Pune Nashik HighwayVillage: Kuruli, Taluka: Khed, 410501 Chakan, India	Reduction of internal defects from 22.95 % to < 3 % in X-123 condenser assembly by Sep'22
13	General Industrial Controls Pvt. Ltd. T- 107, M.I.D.C., Bhosari Pune 411026, Maharashtra, INDIA	Quality & Reliability enhancement
14	Gabriel India Ltd, Plot B/2, MIDC Near Lokmat, Ambad-422010, Nashik	Reduce rejection at spinning Stage Auxillary cell Shox
15	Tata Motors	Reduction of SBA defective
16	MAHLE ANAND Thermal Systems Pvt. Ltd.	Productivity improvement in Logistics by 35%
17	Bharat Forge Ltd., Pune Cantonment, Mundhwa Pune – 411 036. INDIA	Productivity Improvement for Machining of Dies
18	Gabriel India Ltd, Sanand, C-5, TATA MOTORS, VENDOR PARK PO – VIROCHANNAGAR, TAL – SANAND 382 170 AHEMEDABAD, GUJARAT	To reduce peel off defect in Front fork inner tube.

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9. Description of the Activity:

Mr. Santosh Bandal, secretary of ISQ, Pune Chapter, welcomed the august gathering on behalf of ISQ, Pune Chapter through elaboration of programme activities for the day of 'TOPS' convention-2022 and welcomed the honorary speakers and guests present for the convention.

Mr. Parag Auty, EC member conveyed his inaugural session and introduced the guests, quality experts including the jury members and welcomed on behalf of Pune chapter with plant saplings and requested the respected members to inaugurate the programme with lightening of lamp for goddess saraswati.

Mrs. Sarika Joshi, President of ISQ, Pune chapter gave her welcome speech and elaborated the initiatives the ISQ conducts with its vision and mission along with brief history and purpose it has accomplished till today and how it continues to do so through its quality activities. She specifically elaborated the usefulness of the quality tools and principles importance to the budding managers and asked to follow the programme closely to adopt the industry practices of quality in every sphere of business aspect. She declared the programme to be open and gave best of luck to all the participants.

Dr. Abhay Kulkarni, Director, IICMR, Nigdi, made a mark by elaborating how business environment is changing, and so are the expectations of the customers. The competition has never been tougher. Companies need to constantly innovate and improve their quality standards to stay in the game.

The changes in business environment have disrupted the way managers operate their businesses. They need to be more practical and efficient than ever before in order to stay competitive. Managers also need to think outside of the box, as well as being able to solve problems at a much faster pace than before. Quality tools are essential for businesses that want to maintain their competitive edge. They help managers to improve their effectiveness, so they can make better decisions and improve the company's performance. Most businesses start off with a limited budget, with their investments largely going towards raw materials, equipment, and other essentials. But many businesses soon find that they need to invest in quality tools for their managers if they want to maintain their competitive edge.





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The business world is changing rapidly and companies have to adapt quickly or risk being left behind.

Dr. Manisha Kulkarni, HOD MBA@IICMR, Nigdi, Pune welcomed on behalf of MBA department all the guests, speakers, experts, industry participants and audience along with student volunteers with the opportunity that they have got to participate and observe the professional events organized from national association with the intention to achieve quality perspectives through industry best practices. She furthered her opinion with example on how quality tools help in quality practices and followed wisely help in business decision making. She elaborated the ATSS journey over the years to the gathering along with founder members dream to achieve the education journey from KG to PG. Awards the department has got over years for the contribution along with faculty awards and contribution.

She furthered the process of how institute transforms a mediocre student to successful student with all the qualities imbibed for being a potential professional manager and an entrepreneur who will practice in future the quality practices.

After the official inaugural session, participants and jury members were assigned to the respective presentation rooms, wherein actual presentations and evaluation took place based on the division on basic problem solving and advance problem solving throughout the day. Official lunch, and high tea breaks were taken in the schedule of the programme.

At the end of the day, all jury compiled the final results of the evaluated presentations along with chapter members and under the supervision of national committee heads to announce the winners for the category of awards mentioned earlier.

Final august gathering was held at auditorium of the MBA@IICMR, which saw the end of the day review session by Secretary Mr. Santosh Bandal, and Mr. Parag Auti.

The guest for the valedictory function was Mr. Amitabh Mathur, President & M.D., Aptiv Components India Pvt. Ltd., who discussed about the journey of quality tools and practices in Indian scenario with his personal experience sharing about his journey till this position. He also advised the participant to continue with the practices, so as to get ahead with industry 4.0 and 5.0 changes and disruption caused in supply chain after

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Covid-19 pandemic, which makes it even more urgent and important to focus on quality parameters and changing global world scenario.

While on end note, Dr. Manisha Kulkarni, HOD, MBA@IICMR presented her Ph.D. thesis on human development quotient and use of quality tools used to assess the same from academia perspective application of these tools in advancement of new knowledge and application. She also stressed the need of collaboration and MBA@IICMR being open for new development initiatives with all industry participants. Acting on same, MBA@IICMR and ISQ also signed Memorandum of Understanding for the same.

Final winners in both categories were announced and awarded with trophies and certificates.

Student Volunteers, faculty of MBA@IICMR were awarded with appreciation certificates for their active and professional role in programme conduction successfully.

'TOPS Convention', ended on positive and collaborative note with support of MBA@IICMR management, students and faculty members.





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Glimpses of the Activity: 10.







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Pune Chapter

Welcomes Guests, Jury Members and Partic

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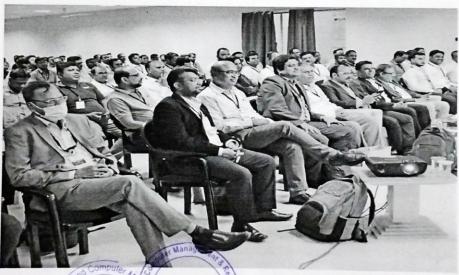


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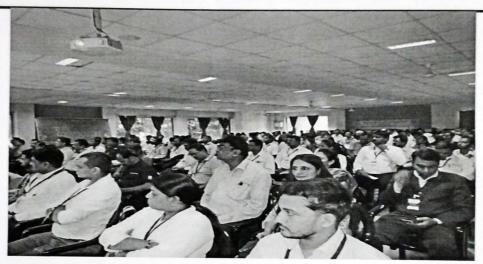




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Prepared by:

Dr. Rajendra Agawane

Submitted to:

Dr. Manisha Kulkarni HOD, MBA@IICMR

Wanagemer

Approved by:

Dr. Abhay Kulkarni

Director, IICMR

DIRECTOR

Institute of Industrial & Computer Management & Research [I.I.C.M.R.]

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