

ACMA

Automotive Component Manufacturers Association of India

IMPACT

Indian Manufacturing Practices

now

by

ACMA Centre for Technology

May 2016

Vol. 9 No. 1

TIME TO

Indian
Production
System

AGY

Innovations, Zero Defects,
New Product Design & Development



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(ISO/TS16949-2009, ISO-14001-2004 & OHSAS-18001-2007)

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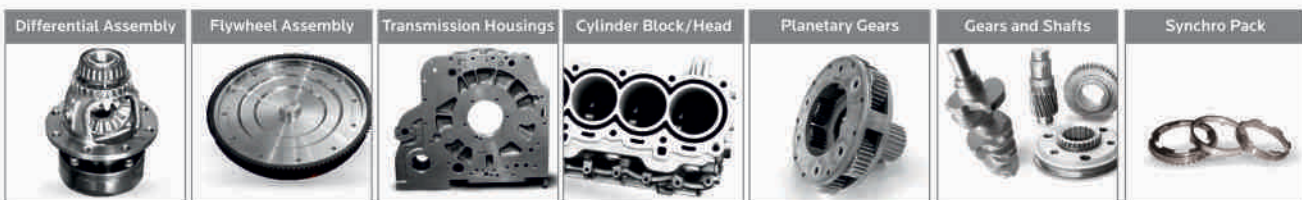
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“Achieve Best to Give the Best”

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Chairman's Message

The turnover of the auto component industry stood at Rs. 2.55 lakh crore (USD 39 billion) for the period April 2015 to March 2016, registering a growth of 8.8 per cent over the previous year and a CAGR of 6 per cent over the last six years. As per the automotive mission plan 2016-26, Indian auto component Industry is envisioned to grow by 5X from USD 39 billion to USD 200 billion and exports from USD 10.8 billion to USD 80 billion. To achieve these targets, Automotive Industry would need investments of USD 80 billion, out of this auto component industry alone requires USD 25-30 billion.

The growth opportunities for the component sector are tremendous, however, to be globally competitive we need to deliver better quality and technology products.

The ACMA Centre for Technology (ACT) has been a pioneer in implementing best manufacturing practices in the automotive industry. It was instituted in 1989 with the objective of providing handholding services to auto component industry and help it produce quality products at the most competitive prices. ACT ensures that the industry is prepared to meet the challenges of the future through a distant roadmap. Automation, Digitization, Industry 4.0, Robotics, Zero Defects, New Product Development, Design Capabilities and Product Cost Reduction with a focus on Energy Reduction and use of Non-Renewable energy are the key drivers for the industry today.

ACT has also started to support OEMs, recently three new clusters were launched for Force Motors, Indore. That apart, the ACMA UNIDO intervention has been supporting well Tier 2 and Tier 3 companies. Currently over 250 companies are availing the benefits under this project.

We have also commenced the process for this year's ACMA awards. These awards are the most coveted recognition for outstanding performance in the component industry. We introduced a new category of awards last year - the HR Excellence Awards while this year another new category - the "Supplier Development Award" is being introduced. I do hope that your company has applied for the ACMA Awards.

This issue of ACT Now shares with you the achievements of various ACT improvement projects as also the feedback from the participating companies. 3rd ACT Case Study Competition is also featured in this issue.

Lastly, please do share with us your critical feedback to enable us in improving this newsletter.

Best wishes

Srivats Ram

Editorial Team

Publisher	: Mr. Vinnie Mehta, Director General, ACMA
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One complimentary copy of "ACT Now" is sent to each member of ACMA. Additional copies are available @ ₹ 150/- for each copy. This cost is including service tax & postage charges.

Launch of ACMA Clusters for Force Motors Ltd. On 22nd April 2016 in Pithampur

ACMA Centre for Technology has always been working rigorously to cater the ever changing and demanding needs of the Indian Auto Component Industry, since its inception back in 1989, the ultimate mandate is to develop and enhance the quality levels and to upgrade technological aspects of the component manufacturers. ACT has always believed in keeping one foot on improving the present conditions of the auto component industry and the other on the futuristic needs that will be required along with the changing times.

At various intervals experts from ACT have analyzed the growing needs of the auto component manufacturers and helped them achieve global standards that are practiced.

In the history of ACMA Centre for Technology, a great milestone was set when a specialized Cluster was launched for Force Motors Ltd. It is indeed a very proud moment for ACMA to cater its signature

cluster program for an Indian OEM.

Considering the specific needs of Force Motors, three unique clusters were developed based on the assessments by experts from ACMA Centre for Technology.

On 22nd April, 2016 the clusters were launched at the premises of Force Motors Ltd., Pithampur.

Following are the clusters and the manufacturing units of Force Motors Ltd where implementation of Cluster has started:

Sr. No	Plant	Unit offered	Duration	Focus of Implementation	Cluster
1	Force Motors Ltd , Pithampur	Body Shop (5 Mfg. Units)	2 Years.	Workplace Improvement, Workplace Ownership, Quality Management, Inventory Management, Productivity Improvement,	Foundation Cluster 11 A
2	Force Motors Ltd , Pithampur	Press Shop (7 Mfg. Units)	2 Years.	Introduction to Lean	Foundation Cluster 11 B
3	Force Motors Ltd , Pithampur	Aggregate Lines (5 Mfg. Units)	2 Years	TEI, Advance 5S, Cellular Manufacturing, Integrated Flow Manufacturing, Re-Training (Sustenance Culture), Introduction to EEC	Advance Cluster 9

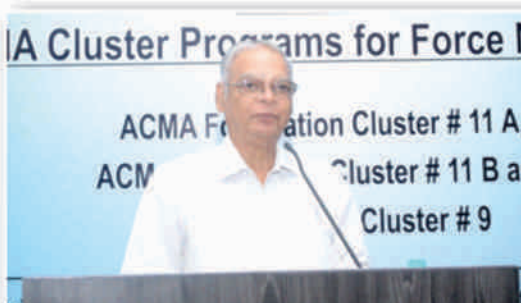
Highlights of the Launch



Key note Address by Mr. Prasan Firodia, MD, Force Motors Ltd.



Cluster Methodology & Counselors' Introduction by Mr. Dinesh Vedpathak, Head Cluster Program, ACT



Guidance by Mr. C Narasimhan, Chief Mentor ACT



ACMA Cluster Implementation Team along with Force Motors Team attended the launch program

ACT Cluster Programs – Value for Money and Company Feedback MSME Clusters (Nationwide)

ACT had launched its first cluster for MSME's in 2014 for northern region with the objective to cater Tier 2 & Tier 3's of the automotive component supply chain. It being well received, various more MSME clusters were launched nationwide with the same objective.

Apart from learning best manufacturing practices the companies have gained tremendous cost savings through the cluster program, the company CEOs have given their feedback for the cluster program which is mentioned below:

ACT Cluster Program (completed)	Cluster Period	Closing Month	No. of companies	Net Savings (Rs Lakhs)	Feedback by Company CEO			
					81 - 85	85-90	90-95	95-100
MSME Lean Project Makino Automotive	Mar 15 - Mar 16	April-16	1	7				96%
MSME Lean Cluster Haridwar - Pantnagar	Jan 15 - Dec 15	March-16	3	84				97%
MSME Lean Cluster Ludhiana	Jan 15 - Dec 15	February-16	5	65				97%
MSME -Satara Cluster (Mutha Founders)	Jan 15 - Dec 15	February-16	4	37			93%	
MSME -Pune Cluster (Greaves Cotton)	Feb 15 - Jan 16	January-16	5	121			94%	
MSME -Aurangabad Cluster (Greaves Cotton)	Nov 15 - Oct 15	January-16	5	61			94%	
MSME Lean Cluster NCR	Nov 14- Oct 15	November-15	8	173				97%
MSME Lean Cluster Pantnagar	Nov 14 - Oct 15	December-15	5	83			94%	
Grand Total No. of companies & Savings and Average Feedback			36	631	95%			

ACT Cluster Program – Value for Money and Company Feedback Advance, Foundation, Engineering Clusters & ACT Projects (Nationwide)

Keeping in view with changing needs of the auto component industry, ACT clusters have been time to time honed and upgraded to meet the changing trends, that suits the requirement of the auto component manufacturers. ACT's signature clusters like Foundation, Advance, Engineering Excellence

and Projects have been the pinnacle in making paradigm shift in the manufacturing facilities and in changing people mindset to help them achieve global standards.

Cost savings and feedbacks from companies that have participated in these programs are provided below.

ACT Cluster Program (completed)	Cluster Period	Closing Month	No. of companies	Net Savings (Rs Lakhs)	Feedback by Company CEO			
					81 - 85	85-90	90-95	95-100
Advance Cluster 4 N	Nov 13 - Oct 15	December-15	5	404				97%
Advance Cluster 4 SW	Nov 13 - Oct 15	December-15	5	1639			94%	
Foundation Cluster 8 N	Nov 13 - Oct 15	December-15	8	1042		89%		
Foundation Cluster 8 SW	Nov 13 - Oct 15	December-15	6	549		90%		
Engineering Cluster 2	Jan 13 - Feb 15	February-15	4	872			91%	
Lean Project- IPCL, Bhavnagar	Sep 14 - Aug 15	August-15	1	411			95%	
Grand Total - No. of companies & Savings and Average Feedback			29	4917	93%			

Tangible :

S.N.	Parameters	Overall Improvements
1	Customer Quality (PPM Reduction)	90 %/100 %
2	In-house Rejection (PPM Reduction)	50 -60 %/90 %
3	Inventory Turns (Achievement)	25 to 100/200 +
4	Productivity Per Man	Doubled/10 X
5	Safety (Accident Free Days)	>250/> 1000 days
6	Breakdowns (Reductions)	80 %/Zero
7	Space Saving	30 to 50 %/60 %
8	Lead Time Reduction	30 to 50%/80 %
9	Containerization	60 to 70%/100 %
10	Manufacturing Cost (Reduction)	20 %/> 20 %

Intangible :

S.N.	Parameters
1	Improved Customer Focus and Responsiveness
2	Employee Involvement & Capability for Innovations
3	Improvement Culture
4	Safe Workplace to Work
5	Plant Visibility and Joyful Workplace
6	Caring for Employee Needs
7	Dust Free (Inside and Outside Shop Floor)
8	Ownership of QCD Parameters
9	Greening of Supply Chain
10	Building Competencies

Feedback from Participating Companies of ACT Foundation Clusters:

Chopra Autotech, Haridwar – It has given our team a feeling of optimism and satisfaction. It conveys both happiness and Meaning. It has worked a magic for us. ACMA has given us the confidence to change and fit in the changing times.

Jumps Auto, Gurgaon - It's been a rich learning experience for Jumps as a company. We have been able to make lot of changes within the organization for effective working and also saving extra cost.

Mark Exhaust, Binola - Cluster activity has enhanced competitiveness in team & have helped my team to implement best practices adopted by cluster companies

Meenakshi Polymers, Haridwar – This cluster helped us to go beyond our imagination. It developed our employees for manufacturing excellence and company profitability increased as the cluster progressed.

New Swan Enterprises - Unit II, Ludhiana - It's been a fantastic journey for me and my team throughout cluster. We learnt and implemented best practices which were out of the box for all of us.

Sandhar Automotive, Dhumaspur - To my mind the real "Workers Participation in Management" is through this program. This involvement brings commitment which is most essential for achieving excellence

Sterling Tools, Prithla - The ACT Foundation Cluster has impacted the work culture at STL in terms of: 1. Improvement activities, 2. Sustenance of improvements carried out and 3. Created a way forward for future growth

Wheels India, Rampur – ACT Cluster is a forum where the Industries get path to enhance the competitiveness which in term supports to meet customer expectations

Delux Bearing – Developed Kaizen Culture – Huge Cost Saving.

INEL - Participation and sharing the thoughts have helped INEL to raise the Standard

MGM Springs - Brought great learning for our team, QCD improvements through TEI.

Mutha Founders - Green floor, reclaimed spaces from various zone, achieved Mindset change benefited in Inventory reduction, Productivity and Cost Reduction

Nash Industries – Cluster is a well-defined learning & implementing methodology towards achieving world class manufacturing system.

Western Thomson - Helped in educating our team on various quality improvement activities in a systematic manner.

Feedback from Participating Companies of ACT Advance Clusters:

Anand NVH Products (P) Ltd., Gurgaon – Actions are better driven as the learning is based on GEMBA rather than being only theoretical.

Munjil Auto Industries Ltd., Gurgaon - The improvements which we have got through ACT advance cluster are very realistic and truly beneficial for the organization.

Neolite ZKW Lightings Pvt. Ltd. Bahadurgarh- I interacted with counselors and got lot of confidence. Major revolution is the change in mind set across all levels.

New Swan Autocomp (P) Ltd., Ludhiana – By the teaching of our counselor & our collective learning from various other cluster companies, we found drastic positive results which benefited the company as well as individuals.

Nipman Fastener Industries Pvt. Ltd., Haridwar - Today Nipman Haridwar Plant has been acknowledged as a "Model Manufacturing Plant" by several firms in the industry. Thanks to the ACMA Cluster's Learning.

Moflex Suspension Pvt. Ltd., Vadodara – We underwent changes without having stress on mind – it was more of a joy then working.

Pinnacle Industries Ltd., Pithampur- We have achieved better efficiency & productivity with lesser manufacturing time after implementing ACMA cluster learning.

Sandhar Automotive, Bangalore – Very Impressive, achieved Root level changes

Vikrant Auto Suspension, Vadodara - It's a program that will make your factory half its size, gift you your own equipment's.

Wheels India Ltd., Sriperumbudur – Triggered TEI, Resulted in More QC & Kaizen Participation.

Feedback from Participating Companies of ACT Engineering Excellence Clusters:

Bharat Gears, Faridabad - The most important point of the journey is that we have been able to re-calibrate eyes of our employees. Our employees have now developed ability to identify waste and eliminate waste.

Menon & Menon, Kolhapur - The most satisfying part of the journey was when our engineers designed and developed an Automated Material Handling System totally in-house. Capabilities like these would form the base of our future competitiveness.

Metalman Auto, Aurangabad - The growth wheel is moving on with same speed this year also. As a result of this journey not only lead to reducing defects but less breakdown & increasing productivity.

Wheels India, Chennai - There has been a considerable effort by the team to reduce costs and improve efficiencies. The learnings in Engineering cluster gives engineers confidence in executing new out box of ideas.

INSTITUTE FOR AUTOPARTS & HAND TOOLS TECHNOLOGY



(UNDP/UNIDO ASSISTED P.B. GOVT. PROJECT)
A-9, PHASE – V, FOCAL POINT, LUDHIANA-141010

AN ISO 9001 : 2008 CERTIFIED INSTITUTION



Institute for Autoparts & Hand Tools Technology is a Punjab Government Project assisted by UNDP/UNIDO. The Institute is primarily assisting Small Scale Automotive Component & Hand Tools manufacturers to upgrade their Technology base and Quality of their products in the changing economic and technological environment.

FACILITIES AVAILABLE WITH THE INSTITUTE

- NABL approved Chemical, Mechanical & Calibration Labs.
- Non Destructive Evaluation in the area of UT, MPT, DPT, Eddy Current, Phased Array UT and AERB / BARC approved Radiography Institution.
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- 3D White Light Scanner & 3D CMM with 3D Rapid Prototyping ABS & Ceramic base for Reverse engineering.
- Heat treatment of metals by using Vacuum Heat Treatment Furnace, Continuous Bright Hardening Plant, Gas Carburizing Furnaces & Cryogenic Processor etc.
- Precision Engineering Department in the area of manufacturing precise press tools, gauges, fixtures, moulds and critical 3D machining using tool paths generated by Advance CAD/CAM Technology.
- State of the Art Cold former for the Thin walled Socket Wrenches, bush and flange nut components.
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Forthcoming ACT Cluster Programs

Launch of 2nd ACT New Product Development Foundation Cluster and 1st ACT New Product Development Design Cluster

2nd ACT New Product Development Foundation Cluster

The overwhelming response and the commitment received from the ACMA Members for 1st ACT New Product Development Cluster Program encouraged ACMA to launch the 2nd such cluster program in September, 2016. The 1st Cluster was launched in September, 2014 with six companies as its member.

Following companies are part of this running cluster:

IM Gears, Chennai

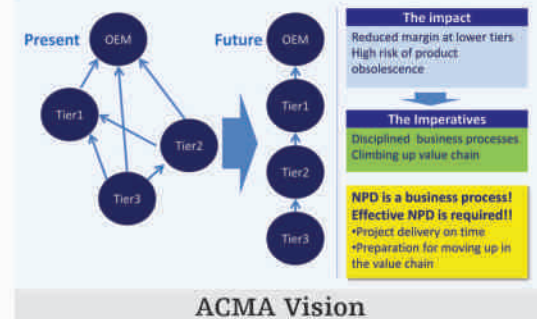
JK Fenner, Chennai

Sundaram Auto Components, Hosur

Menon and Menon, Kolhapur

Sanjeev Auto, Aurangabad

Rockman industries, Bawal



The objective of this cluster is to build product development capabilities among manufacturing units. Learnings from the first cluster have been well incorporated in the second cluster program. Second cluster comes with improved roadmap, richer training content and compelling intervention strategy. The companies, who have been a part of this cluster program, have reported:

- Improved on time delivery of projects
- Reduced rework in tooling and process
- Reduced rejections during initial production and in regular production
- Achieving cost committed in RFQ response stage
- Improved RFQ conversion
- Improved team work
- Learning culture and expertise development

Parameter	unit	before	after	Remarks
Sample resubmission	ratio	1.54	0.01	issue eliminated
Initial quality - internal rejection	%	18%	5%	Cur. prod. level
Initial quality - customer rejection	%	2%	0.02%	
Sample development time	ref ratio	1	0.69	30% less
Lead time for SOP	ref ratio	1	0.67	33% less
Cost deviation, negative is good	%	8%	-1%	9% points gain
New product sales, annual	Rs, Cr	23.3	37.5	
Perpetuity in 2018-2019	%	7%	22%	

Business benefits (total for all six companies), in Rs Cr.

During cluster period	4.02	not yet matured
Potential generated for 2017-2018	41.69	

Running NPD Cluster Results so far

The various clusters of ACT have been designed in such a way that it caters to the varied needs of the industry. ACT Foundation, Advance, Engineering and ZED Clusters have been customized to the needs of large companies whereas ACMA UNIDO Clusters supports the smaller auto component units. In addition, ACT has also been deploying various quality projects suiting to the specific needs of companies. ACT has been running various cluster programmes since 2001 and till date these clusters have helped more than 650 manufacturing units.

In an industry where the margins are under constant pressure due to the increasing input costs on one hand and the demand of the customers to continually lower prices, on the other, the only way to hold the head above water is to focus on value-addition by indulging in new technologies, by focusing on new product development, by deploying newer and improved processes etc. We urgently need access to right technologies, which are in-line with green manufacturing, a trend gaining fast acceptance the world-over.

ACT NPD Cluster Road map consists of:

- Basic NPD process and organization setup
- New Product Quality Control
- New Product Quality Assurance
- Product Cost Management
- Lead time reduction
- Organizational competence building

ACMA NPD Foundation Cluster Roadmap																								PM_46_G8 Rev 00		
Time in Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Deliverables	Expected Outcome during 2 years
Design Guidelines Subject Experts Features and Functions	Organisational competence building															Improved competence In-house expertise				One implemented example for each topic						
Change Management Generic Lead Time Reduction Customer Aligned Process Concurrent Engineering	Lead Time Reduction															Faster Project Delivery Reduced Lead Time				One implemented example for each topic						
Activity Based Costing Frugal Reuse / Recycle Standardization	Product Cost Management															Lower Product Cost Lower Project Cost				One implemented example for each topic						
Requirement Management Process design and Verification FMEA Gate Reviews	New Product Quality Planning															Reduced Rework in design Reduced Rework in tooling				One implemented example for each topic						
Failure Directory Current Product QA DRM Quality Proving & Technical Proving QC Story	New Product Quality Control															Stable Initial Quality Reduced Rejection in Mass Production				One implemented example for each topic						
NPD Matrix NPD Elements CFT & Steering Committee DRM & War Room	Basic NPD Process & Organization Set-up															Project Delivery on time Achieving planned quality and cost targets				One implemented example for each topic						
Review Gates																										
Cluster Gate Definitions																										
Gate	Month No.	Deliverables																								
0	1	Demonstrated commitment to the program by participants																								
1	3	Coordinating Team, CFTs, NPD Control Room and plan for design/testing capabilities in place																								
2	6	Quality Control Tools implemented in at least one project																								
3	9	Quality Planning Tools developed and practice started																								
4	15	Cost models in place, demonstrated reduction results and implementation of lead time reduction actions																								
5	20	All initiatives deployed to some currently running projects																								
6	24	All initiatives deployed to all currently running projects																								
Property of ACT (ACMA Centre for Technology)																										
Timeline mentioned in terms of month is a guideline and can vary as per the situation. All course contents must be delivered within the cluster program duration "																										
Rev. 0 - 2nd Aug, 2016																										

Deliverables of ACT NPD Cluster program:

- Controlled processes
- First time right products
- Consistent product quality
- Lead time reduction for product development
- Cost Reduction
- Organizational competence
- Improved customer satisfaction

Company Requirements

- Top management commitment to implement organisational changes
- Good levels 5S, TEI and Employee Welfare

- Safety, Health and Environment
- TS Certification

This is assessed during selection process assessment.

Implementation Team

- One Coordinator to be assigned from the applicant company. Coordinator should have been working in the same company from last 3 to 5 years.
- Implementation of CFT structure to learn, implement and cascade the learning.

ACT Engagements

- One Product Line
- Audit for full implementation
- Train the Trainer

Design and Process Verification Capability

- Applicant Company should have a fully equipped tool and process design office.
- Applicant Company should have tooling and process verification capabilities for the processes. If not available for a few processes, then it should be ready to establish the same or should be able to get timely service from outside.

	2014 September	2016 September	2018 September
Foundation Cluster	Launch 1 st Cluster	Launch 2 nd Cluster	Launch 3 rd Cluster
Design Responsible Cluster		Launch 1 st Cluster	Launch 2 nd Cluster
Design Aspirant Bridge Cluster			Launch 1 st Cluster

NPD Clusters Launch Plan

1st ACT New Product Development Design Cluster

ACT Team always works hard and tries to support the auto component manufacturers to achieve new level of performance.

As a next step, ACT is pleased to launch the New Product Development Design Cluster in September/October, 2016. Learnings of the presently running NPD cluster have also been well incorporated in this cluster.

The Design Cluster comes with a roadmap, training content and intervention strategy which is appropriate for tier-1 and tier-2 companies that have responsibility for design.



Rigorous German product development process



Efficient Japanese tools and methods

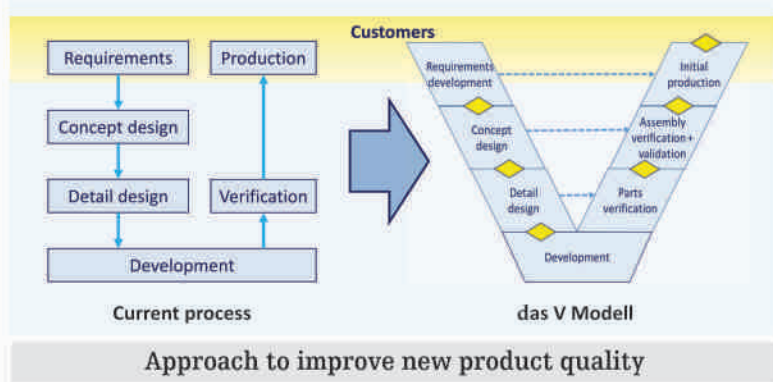


Effective Indian Daily Routine Management

Three pillars of new product design and development cluster

ACT NPD Design Cluster Road map consists of:

- Basic NPD process and organization set-up
- Trouble free new product introduction
- New product quality deployment
- Design to cost
- Lead time compression
- Technology and knowledge management



ACMA NPD Design Cluster Roadmap

Time in Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Deliverables	Expected Outcome during 2 years
Design to Cost																			Optimizing	New Technologies Lowest Cost High Organizational Capability	One implemented example for each topic					
Agile Project Management																										
Technology Development																										
Academic Link																										
Lead Time Management													Managed	Reduced Lead Time Meeting Challenging Cost Target Meeting Challenging Quality	One implemented example for each topic											
Cost Management																										
Capability Management																										
Technology Management																										
Product Development System							Defined	Controlled Processes Predictable Stage Timing		One implemented example for each topic																
Design Process																										
Testing Process																										
Design & Gate Reviews																										
Basic NPD Organization				Repeatable	Meeting Delivery Timelines Reasonable Quality Controlled Cost			One implemented example for each topic																		
Daily Routine Management																										
Quality Trouble Shooting																										
Change Management																										
Property of ACT (ACMA Centre for Technology)																										

"Timeline mentioned in terms of month is a guideline and can vary as per the situation. All course contents must be delivered within the cluster program duration"
Rev. 0 - 2nd Aug, 2016

Deliverables of ACT NPD Design Cluster program:

- Controlled product design, development and introduction
- Smooth transfer of new products to production
- Consistent product quality pre and post launch
- Lead time reduction for product development
- Meeting challenging cost targets
- Organizational competence
- Technology management capabilities
- Improved customer satisfaction

Company Requirements

- Top management commitment to implement organisational changes
- Good levels 5S, TEI and Employee Welfare
- Safety, Health and Environment
- TS Certification

This is assessed during selection process assessment.

Implementation Team

- One Coordinator to be deputed from the applicant company. Coordinator should have been working in the same company from last 3 to 5 years.
- Implementation of CFT structure to learn, implement and cascade the learning.

ACT Engagements

- One Product Line
- Audit for full implementation
- Train the Trainer

Design and Testing Capability

- Applicant Company should have a testing laboratory or should be ready to establish the same or should be able to get timely service from outside.
- Applicant Company should have a design office or should be ready to establish the same.

Eligibility Criteria for 2nd ACT New Product Development Foundation Cluster and 1st ACT New Product Development Design Cluster :

Companies, who have undergone any of ACT / UNIDO Cluster successfully or achieved similar levels on shop-floors (This would be decided after the site visit and interaction with company team) have the privilege to join the these Programs.

The duration of these Cluster programs are 24 months.

These Cluster Programs are Comprised of:

- Monthly Counsellors visits
(1 visit per month, total 12 visits per year in addition to MRMs)
- Monthly training
- Monthly Review Meetings (MRM)
- Visit/exposures to model companies
- Additional guidance from Mentor in MRMs
- Cross learning and sharing

Dynamic and totally committed CEOs, who have a keen desire to rapidly transform their organizations should approach ACT for joining the 1st ACT New Product Development Design Cluster/2nd ACT New Product Development Foundation Cluster.

Course material:

Course materials as per road-map topics will be provided in soft form to companies to enable cascade training across the organisations within the company.

You can visit www.acma-act.in to access and download "IMPACT now" Newsletter, which shares success stories of ACT Cluster companies.

The Launch of these Cluster Program is scheduled in September/October 2016. Interested companies are requested to inform latest by 25th August, 2016.

Final selection of the companies will be done by ACT management after plant assessment and personal discussion with the CEOs of the applicant company.

For more details, you can write/contact:

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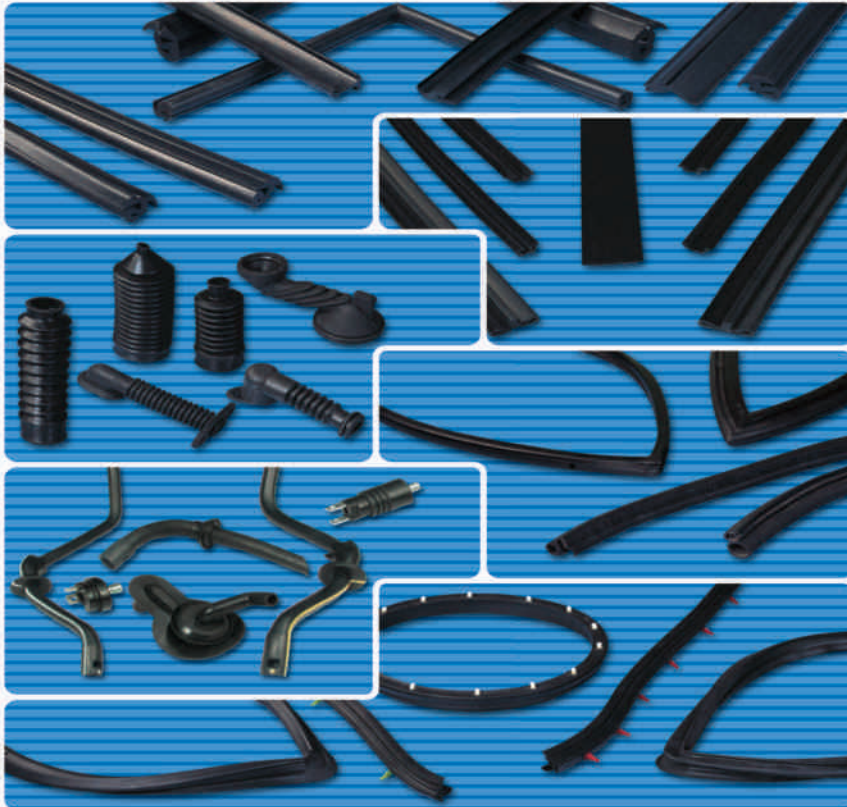
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3rd ACT Case Study Competition

15th & 16th November, 2016

Streams:

Group A: Improvement in Productivity, Quality, Cost Reduction, Safety & Environment

Group B: Zero Defect Quality, Zero Effect Activity, IoT – Internet of Things, Innovation/Automation)

For over 50 years, the Automotive Component Manufacturers Association of India (ACMA) has been working to facilitate a greater synergy between various stakeholders of the automotive component industry. The ACMA Centre for Technology (ACT) was formed in the year 1989 with a mandate to provide technical support and services to auto component industry. ACT has delivered since, in multiple configurations, with available resources and professionals from the industry.

To achieve excellence in manufacturing, we need competent people and robust systems/processes. In keeping with industry needs, ACT has pioneered implementing quality projects in auto component / automobile industry. Since inception, ACT helped more than 650+ manufacturing plants all over India through its signature – ACT Cluster Programs. ACT is also involved in designing and implementing ACMA

Awards, Domestic & International Study Tours, Seminars and Conferences.

ACT organized “1st ACT Case Study Competitions” at Pune in 2015 which was a grand success. Encourage by the success the 2nd ACT Case Study Competition was organized in October, 2015.

We are pleased to announce the 3rd ACT Case Study Competition in November, 2016. This time the competition will be organized in Pune.

These competitions provide a platform to the participants for direct learning as live case study presentations are shared by various competing companies from nationwide. These competitions provide the much needed exposure to the employees and also motivates them to deliver their best to their organizations.

The objective of this competition is to help companies witness actual Case Studies from various companies, take clues and reduce their Non-value added activities, besides the abundant cross learning opportunities.

Last date to submit Case Studies (for Level 1 Competition) is 20th September, 2016.

Streams (Group Category A) : 3rd ACT Case Study Competition

Note for Stream topics: Case studies should have linkage for stream topics, however, examples shown like zero defect, zero rework are representative and you may choose similar / nearer topic for selection of case study area in any stream.

Streams of 3rd ACT Case Study Competition for Group Category A - November 2016				
Streams	Stream 1: Improvement in Productivity	Stream 2: Improvement in Quality	Stream 3: Cost Reduction	Stream 4: Safety & Environment
Topics	Productivity improvement	Reduction/ Elimination of Defects	Waste elimination / reduction	Increase in Accident Free days
	Manpower optimization	Reduction / Elimination in Rework	WIP reduction	Reduction in Effect (Zero Discharge
	Per person per day productivity increase	Reduction / Elimination in Customer Complaints	Reduction in machine breakdown	Reduction / Elimination of Accidents
	Reduction in cycle time	Reduction in Customer returns	Increase in Inventory Turn Ratio	Conservation of Resources
	Improvements in layouts for material travel reduction	Reduction / Elimination in Rejection/ scrap	Energy Savings	Use of renewable Energy
	Multi-machine concept	Reduction / Elimination in Warranty Rejection	Saving through Kaizens / Suggestions / QCC and similar	Carbon Foot Print reduction
	Changeover time reduction	Reduction in Incoming Quality Rejection	Cost saving through LCA	Paper elimination
	OEE Improvement	Reduction in Handling Damages	Yield improvement	Wood elimination
	Automation	Reduction in Mis-Shipments		Use of environment friendly materials
		CPk Improvement		Recycle / Reuse
		COPQ Improvement		Waste Management
				Water Saving
			Oil saving	

Improvement in Productivity: Increase in production output per person per day / shift/day
Improvement in Quality: It should result in Customer (Internal/ External) delight.

Cost reduction: Reduction in cost & increase in profit

Safety & Environment: It should result in improving mother earth / nature delight & employees. Accident elimination, converting Unsafe to safe conditions / Reduction or Elimination in risk, injury or loss to personnel &/or property.

Streams (Group Category B) : 3rd ACT Case Study Competition

Note for Stream topics: Case studies should have linkage for streams / topics, however you may choose similar / nearer to topics for selection of case study areas in any stream.

Zero Defect Quality : It should result in killing defects (At Final stage / In-process / Incoming).

Zero Effect Activities : It should result in reduction / elimination of effect on environment

IoT- Internet of Things : It should result in wireless networks between objects / systems / Elimination of manual interventions / adaptive controls.

Innovation/Automation: It should result in embracing new ways and elimination of manual efforts / time reduction / cost reduction / fatigue reduction and improving resources substantially.

		Streams of 3rd ACT Case Study Competition for Group Category B - November 2016			
		Stream 1: Zero Defect Quality	Stream 2: Zero Effect Activities	Stream 3: IoT - Internet of Things	Stream 4: Innovation / Automation
T O P I C S	Zero Defect	Zero Effect / Zero Discharge	RFID / Passive RFID	Inspection & Gauging	
	Zero Rework	Conservation of Resources	Sensors	Tooling	
	Zero Customer Complaints	Energy Saving	Barcodes	Fixture	
	Zero Customer returns	Carbon Foot Print reduction	DNS	New Process Technology	
	Zero Rejection/ scrap	Oil elimination	Wi-Fi	New Product Technology	
	Zero Warranty Rejection	Paper elimination	Mobile Computing	Process Automation	
	Zero Incoming Quality Rejection	Wood elimination	GPS tracking	Product Light Weighting	
	Zero Process Quality Rejection	Material Yield improvement	Security sensors	Material Yield	
	Zero Handling Damages	100% Recycle / Reuse	Condition sensors	Auto Material Handling	
	RFT (Right at First Time)	Waste Management	Near Field Communication (NFC)	AGV-Automated guided vehicle	
	Reduction in DPMO (Defects per million opportunities)	Water Saving	Grid Sensors	Pick to Light systems	
			Mesh Networks	RGV- Robotic guided vehicle	
			Telematics	Mechatronics	
			CDMA / GPRS / 4G	Automatic assembly station/line	
			Auto loading / unloading		

Qualified and Shortlisted Case Studies of Level 1 Competition will be eligible for the final round of Level 2 Competition which is scheduled to be held at Pune on 15th & 16th November 2016 in Pune.

In addition to participation in Case Study Competition, interested companies can also nominate officials to participate as delegates. Nominal fee for delegate participation has been kept. Delegate Registration would open after 20th September, 2016.

Furthermore, various sponsorship options have been worked out for the companies which are interested to promote their brand in auto component industry through such events. The details of these sponsorship options are as follows:

- A. Gold sponsors : (INR 2,25,000)
- B. Silver Sponsors : (INR 1,50,000)
- C. Principal Sponsors : (INR 1,00,000)
- D. Associate Sponsors : (INR 35,000)
- E. Stall Sponsorship : (INR 25,000)

Sr No	Sponsorship Category	Sponsorship Amount	Benefits for Sponsors
A	Gold Sponsor	INR 2.25 Lakh	<ul style="list-style-type: none"> • Free entry for two shortlisted Case Study teams for the Level 2 Competition • Display of Company Logo & Name on Backdrop • 25 numbers complementary delegates for competition- (any one day) • Opportunity to run company promotional film of maximum three minutes during Lunch & Tea breaks • Company Brochure in doc pack (Hard copies / CDs to be provided by sponsor company in advance)
B	Silver Sponsor	INR 1.5 Lakh	<ul style="list-style-type: none"> • Free entry for one shortlisted Case Study team for the Level 2 Competition • Display of Company Logo & Name on Backdrop. • 15 numbers complementary delegates for competition- (any one day) • Company Brochure in doc pack (Hard copies / CDs to be provided by sponsor company in advance)
C	Principal Sponsor	INR 1 Lakh	<ul style="list-style-type: none"> • Display of Company Logo & Name on Backdrop • 10 numbers complementary delegates for competition- (any one day)
D	Associate Sponsor	INR 35K	<ul style="list-style-type: none"> • Display of Company Logo & Name on Backdrop • 4 numbers complementary delegates for competition- (any one day)
E	Stall sponsorship	INR 25K	<ul style="list-style-type: none"> • Space to company & company representative for products / services display during Level 2 Competition at Hotel. This will include one standard table & 2 Chairs outside the main halls. • 2 numbers complementary delegates for competition- (Including exhibitors) (any one day)

Interested companies can pay the sponsorship amount through Local Cheque / Demand Draft in favor of "Automotive Component Manufacturers Association of India", payable at New Delhi towards the sponsorship amount for the 3rd ACT Case Study Competitions. (Last date to submit - 20th Sept 2016)

Note-

- 1) The Sponsorship amount is non-refundable.
- 2) Sponsors are to email their company logo in Coral Draw or JPG high resolution format - minimum 10 days before event.
- 3) Sponsors are to Mail/Post their Company Brochures / advertisement hard copies / CDs as per sponsorship category - minimum 10 days before event.
- 4) Gold sponsors need to send their film in DVD - minimum 10 days before event.

3rd ACT Case Study Competition

15th & 16th November, 2016 at Pune

Guidelines for Participation

- a. Only implemented case studies will be considered for shortlisting under Level 1.
- b. One company can submit multiple number of case studies in all streams.
- c. Case studies to be submitted in soft copy (use Entry Form – Case Study – Level 1) by email to sakshi.karkamkar@acma.in, act@acma.in before 20th September 2016
- d. Only ACMA Member companies + ACT or UNIDO Cluster Companies (which may be non ACMA members but have participated / Presently participating in ACT, ACMA–UNIDO Programs) are eligible to participate.

Filling Case Study

1. Need to fill up all contents
2. Case Study (Level 1 entry form) should not be more than 2 to 3 number of A4 Pages (4 to 6 Pages, when printed on both sides of paper).
3. Graphs, Photographs can be added suitably in the same page.

Rules for Competition

1. There is no fee for submission of case study for entering (Level 1) this competition. If selected for next level (Final - Level 2), participation fee per case study need to be paid to ACMA. Gold winner case studies from Level 2 will make a presentation at 2nd ACT Summit planned in January 2017 at Pune, free entry will be provided to Summit for 2 team members.
2. There are different streams for entering (Level 1) for competition for Group Category A & B companies.
3. Case studies must describe actual implementation of improvement projects.
4. Case studies which cleared screening (Level 1) will be invited to participate in Level 2 competition
5. Venue for Level 2 Competitions: Pune. Communication would be sent to all shortlisted case study companies via email from ACMA office along with Presentation Template (Level 2).
6. Competition time for Level 2 is 12 minutes for each Presentation in PPT format which preferably should have audio–video.
7. Level 2 competition will be separate for Group Category A & B companies.
8. One company can submit multiple case studies in any stream
9. Case studies can be presented in English / Hindi only.
10. Stream wise winners of the competition will be announced on same day. All participating case studies will receive a Certificate of Participation.
11. Fees for Level 2 to be paid in advance or before competition - by cheque / demand draft / NEFT - RTGS transfer *
12. Additional persons can attend the summit by paying appropriate delegate fees.
13. Presenters at Level 2 competitions can be Staff or Operatives (We suggest to depute good speakers who have confidence and fluency in English / Hindi Language)
14. Case Study submitted during 1st & 2nd ACT case study competition are not eligible.

Judging of entries

Accepted entries will be judged by an independent Jury Panel having experienced and eminent professionals from the industry, constituted by ACMA. Entries will be evaluated on the basis of organization of content, quantified benefits to the organization.

Decisions

All decisions on all matters relating to the ACT Case Study Competition will rest with ACMA or anybody authorized by it and it will be binding on all contestants.

3rd ACT Case Study Competition 15th & 16th November, 2016 at Pune

Timelines & Fees Structure for all Streams

Sr. No.	Case Study Competition's Activity	Timeline & Location	Participation Fees
1	Receipt of Case study via email (send filled Entry Form)	20 th Sept 2016	No entry level fees
2	Level 1- Scrutiny of case papers & Shortlisting for Final round by Jury Panel	5 th Oct 2016	Level 1- No Processing fees
3	Level 2 and Final Round – -Case Study team leader & team members need to deliver presentation -Winner declaration & Awards Distribution	15 th & 16 th Nov 2016 at Pune	Level 2- A. For ACMA Members & ACT, ACMA-UNIDO Cluster Members Fees per case study as per company group turnover criteria 3.1 Company Group Turnover < INR 150 Cr (Category A) Per case study INR 5500 + Service Tax as applicable Per Delegate INR 1500 per day + Service Tax as applicable 3.2 Company Group Turnover > INR 150 Cr (Category B) Per case study INR 9500 + Service Tax as applicable Per Delegate INR 2000 per day + Service Tax as applicable 3.3 Per case study 2 Team members are allowed (including facilitator / team leader) 3.4 Discount of 20% is applicable for more than 3 case studies from one plant B. For Non- ACMA Members 3.5 Delegate Fee is 25% more than ACMA member / cluster company + Service Tax as applicable 3.6 Discounts of 20% is applicable for more than 4 delegates from one plant C. Refer Brand Proportional Opportunities for More discounts
4	Gold winner case studies to mal presentation at 2nd ACT Summit	January 2017 at Pune	Free entry to Summit for 2 team members per case study

Program Content

The broad Program of the day will be:

- Parallel Case Study Teams Presentation for the Competition for Group Category A & B companies in different halls
- Group Category A & B winner teams will be decided by the team of Jury members & awarded in the Valedictory Session on the same day.
- Certificate of participation to all participant companies
- Complementary DVD of all case study presentations to all participant companies

Benefits to the Winning Teams of this Competition

- Winner team will be awarded during the event with a trophy, certificate, memento and

"Excellence in Manufacturing...Inestimable Mantras!!" A book written by C. Narasimhan

- Jury special award/s by chief guest for presentation skill, if any team member is found suitable.
- Opportunity to present selected gold winner case studies at ACT Summit (free entry of 2 team members to Summit)
- Circular to all ACMA members, informing winners of Case Study Competition.
- Gold award winning case studies of all streams will be published in "ACT Now" magazine (Each edition is circulated to more than 700 auto component manufacturers, more than 40 vehicle manufacturers and at important ACMA events)
- List of Winners & Photographs of gold winner case study will be displayed on ACT website.

3.4 Analysis to find root cause : (Example- process of analysis & finding of root cause, you may use suitable tools)	
3.5 Validation of root cause & Action :	
3.6 Results to compare Before & After Status :	
4. What is uniqueness of this project? Explain in brief (max. 3 lines):	
5.1 Benefits of the Project: Tangible (Quantitative) i) Financial Benefits INR/Annum	5.2 Benefits of the Project: Intangible (Qualitative) (Space, Time, Skill reduction etc.) i) ii) iii)
<u>Company Permission</u>	
We certify that the contents of the Synopsis are factually correct and we agree to depute our team to make a final presentation at the ACT Case Study Competitions 2016 (Level 2) scheduled to be held on 15th & 16th November, 2016 at Pune . In case this entry is shortlisted in Level 1 & if won Gold Award, we will present the case study (if selected for presentation) at 2nd ACT Summit, January 2017 at Pune . All shortlisted case study presentations will be distributed into DVDs to all participating companies at the ACT Case Study Competitions 2016 (Level 2) & gold award winning case study presentation will be published.	
Name : (Plant Head / Authorized Person)	Designation:
Date :	

*All communication will be sent to the Contact person through email ** Case Study submitted during 1st & 2nd ACT case study competition are not eligible for participation.

In case of any query, interested companies can contact:

Ms. Sakshi Karkamkar, Executive Officer, Email: sakshi.karkamkar@acma.in, act@acma.in,

Mobile: +91 7387002181

And/Or

Ms. Pragya Srivatava, Executive, Email: pragya.srivastava@acma.co.in **Mobile: +91 8826092235**

Information on Standardisation and Regulations

AIS Standards:

Following AIS have been hosted on web-site:

1. **AIS-049 (Rev. 1):** Electric Power Train Vehicles - CMVR Type Approval for Electric Power Train Vehicles
2. **AIS-119 (Rev. 1):** Specific Constructional Requirements for Sleeper Coaches
3. **AIS-123 (Part 2):** CMVR Type Approval of Hybrid Electric System Intended for Retro-fitment on Vehicles of M and N Category having GVW > 3500 kg
4. **AIS-123 (Part 3):** CMVR Type Approval of Electric Propulsion Kit Intended for Conversion of Vehicles for Pure Electric Operation
5. **AIS-127** : Provisions Concerning the Approval of Adaptive Front-Lighting Systems (AFS) for Motor Vehicles
6. **AIS-133** : Electronic Stability Control Systems

Following Standards are under Revision:

1. AIS-017 (Part 1, 2, 4 and 5) (Rev.1): Procedure for Type Approval and Certification of Vehicles for Compliance to CMVR. Revisions of AIS-038, 039, 040, 041: Standards on Battery Operated Vehicles
 - a. AIS-017 (Part 2) (Rev. 2): Procedure for Type Approval Certification of Agricultural Tractors for Compliance to CMVR.
 - b. AIS-017 (Part 4) (Rev. 1): Procedure for Conformity of Production of Agricultural Tractors for Compliance to CMVR.
 - c. AIS-017 (Part 1) (Rev. 1): Procedure for Type Approval and Certification of Vehicles for Compliance to CMVR.

Following Notifications have been Release through Ministry of Road Transport and Highways during April 16 to June 16.

1. SO 1328 (E) dated 6th April, 2016 regarding implementation of new norms for maximum axle load limits for two axle airport buses (Tarmac buses) with air-suspensions
2. Draft GSR 408 (E) dated 6th April, 2016 regarding implementation airport buses (Tarmac buses) provisions under CMV Rule 93C and 118
3. Draft GSR 425 (E) dated 18th April, 2016 regarding implementation of provisions for vehicle carriers

in articulated combination under CMV Rules

4. Draft notification dated 2nd May 2016 for introduction of provisions of Vehicle Location Tracking Device, Alert Button and Closed Circuit Television under CMV Rule 125 F for Buses
5. SO 1472(E) dated 22nd April 2016 regarding postponement of requirement of Speed Governor fitment as per Sub-rule (2) of CMV Rule 118 till 1st July 2016
6. SO 1473(E) dated 22nd April 2016 regarding postponement of brakes for Agricultural Tractor and Trailers as per CMV Rules 96-C and 97 (3) till 1st January 2017
7. SO 1329 (E) dated 5th April 2016 exempting the motor vehicles transporting livestock from the purview of 125E of the CMVR up to 30th September, 2016
8. SO 1434 (E) dated 18th April 2016 regarding axle loads for Modular Hydraulic Trailers.
9. SO 1599 (E) dated 2nd May 2016 regarding postponing requirements of Bus compliance as per AIS-052 (Rev.1) notified under CMV Rule 125C(1) up to 1st October 2016.
10. Draft GSR 472 (E) dated 2nd May 2016 regarding implementation of AIS-062 (Rev. 1) and AIS-007(Rev. 5) under CMV Rules 124-A and 126 respectively
11. GSR 473 (E) dated 2nd May 2016 regarding fitment of light weight container to two wheelers under CMV Rule 123
12. Draft GSR 479(E) dated 3rd May 2016 regarding omitting requirement of Speed Governor Fitment as per Sub-rule (1) of CMV Rule 118 till 3rd May 2016.
13. Draft GSR 530(E) dated 18th May 2016 regarding All India Authorization for Tourist Bus Permit Rule 2016
14. GSR 594 (E) dated 13th June 2016 regarding provisions on dimensional, speed governor and clarity on restricted use within Airside application for Airport Passenger Bus
15. GSR 595 (E) dated 13th June 2016 regarding Procedure for managing vehicle recalls under rule 127A
16. Draft GSR 620 (E) dated 23rd June 2016 regarding implementation of Sleeper Coach norms as per AIS-119 (Rev. 1):2016 under CMV Rule 125 C
17. Draft GSR 621 (E) dated 23rd June 2016 regarding clarity on goods carried by vehicles carrying livestock under CMV Rule 125 E.

Recently held activities and forthcoming activities of ACMA Centre for Technology

New Programs	Companies undergoing current Clusters	Next Cluster available from
Tier 2/3 UNIDO Program	230	Aug-16
Foundation	24	Sep-16
Advance	24	Dec-16
Engineering Excellence	8	Oct-17
NPD Foundation	6	Sep-16
Zero Defect & Zero Effect (ZED)	7	Proposed
Export VDA 6.3	3	Mar-17
Total Companies	302	

Launch of 1st Export Cluster

Launched 1st ACMA Export Cluster on 13th Apr 2016 at New Delhi, participating companies-

- Gajara Gears Pvt. Ltd., Dewas
- Sanjeev Auto Parts Manufacturing Pvt. Ltd. , Aurangabad
- Madhusudan Auto Ltd., Gurgaon



Time in Months *	1	2	3	4	5	6	7	8	9	10	11	12	Deliverables	Implementation during 12 months
1. Preparing organisation for the Audit 2. Reduced customer/ internal/ supplier concerns										Supplier requirements of Auto OEMs		Supplier requirements of Auto OEMs from other American & European countries.	Revise the basic concepts, evidence of which is required to be seen in auditee organization. Organisation will be prepared for facing Customer Audits	
1. Focus areas of Process elements P6.1 to P6.6 2. Focus areas of Process elements P5 & P7. 3. Focus areas of Process element P2, P3 & P4 4. Quality Tools, 7 types of wastes, 8D & Problem-solving. 5. Machine and Process capability, Pre Control charts, 6. Failure prevention, Mistake proofing & Poka Yoke solutions 7. Continuous Improvement techniques including DOE & QFD	Tools and Proficiency (Different tools as per VDA 6.3)									Revise the basic concepts Evidence in auditee organization. Different tools as per VDA 6.3 Quicker Problem Solving				
1. Conducting actual audit as per VDA 6.3 method using the internal audit team. 2. Evolving corrective actions.	Hands On training of VDA audit.		Compiling excel sheet & interpreting findings Evolving improvement plan Finding out status. Get to know your levels & develop internal auditors Learning the VDA way of process auditing which is different from System auditing.							Actual implementation of VDA 6.3 with Internal Audits				
1. System audit Vs. Process audit 2. Structure of VDA 6.3 3. Process elements P2 to P7 4. Generic launch Pad 5. Risk identification with Turtle diagram	Awareness of VDA 6.3 process auditing		Understanding the VDA system of process auditing. Evolving open audit-questions & link up to VDA questionnaire. Hurdle Rules / Knock Out criteria Potential analysis with P1 Understanding customer requirements							Create awareness of VDA 6.3				

Property of ACT (ACMA Centre for Technology) 2015

Rev 0 : Dec 15

* Timeline mentioned in terms of month is a guideline and can vary as per the situation. All course contents must be delivered within the cluster program duration.

1st ZERO DEFECT AND ZERO EFFECT Cluster Program (Report card of 9 Months)



C. Narasimhan
Chief Mentor, ACT



Dinesh Vedpathak
Head Cluster Program, ACT

ACMA Centre for Technology launched its ZED (ZERO DEFECT & ZERO EFFECT Cluster Program) in Sep 2016 with 7 Companies.

ZERO DEFECT QUALITY is dream of all and we have all options of tools to bring quality from % levels to PPM Levels. Today this is not acceptable other than Zero Defects. To get different results, we need to use different methods.

This Cluster is designed and being mentored by Mr. C.Narasimhan , Chief Mentor ACT with Mr. Dinesh Vedpathak , Head Cluster Program , ACMA as Counselor.

Progress of 9 Months journey proven that ZERO DEFECT is possible and it can be achieved in short span of time .

Here tool used are : 5 Senses , 5 Tatvas , DRVME sheet , PERT CHART , TTC and a room to fight war on quality called QUALITY WAR ROOM.

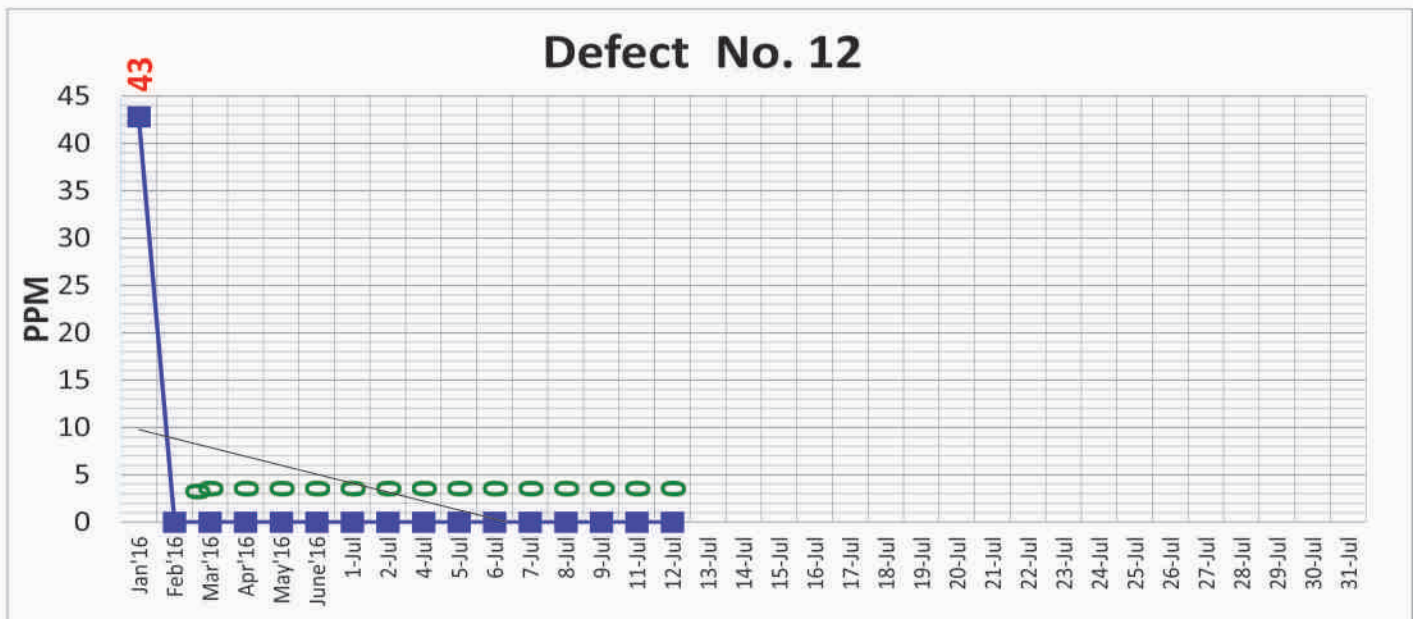
Actual data is shown from one of the participating company NEOLITE ZKW LIGHTINGS PVT. LTD, Bahadurgadh.

ACMA - CII ZERO DEFECT & ZERO EFFECT CLUSTER PROGRAM (ZED) ROADMAP PM_46_G9 Rev 1 Jun 2016

Time in Months *	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Deliverables	Culture
1. Horizontal Deployment plans 2. Holding gains (Audits) 3. Training Manuals																				Holding Gains	Sustenance Culture	Sustenance Culture				
1. Customer Voice 1.1 Design tools Formats and Manuals 2. Product concepts 3. Design Reviews 4. Quality Proving												NPD-NPI						Capturing Customer requirements through- Requirement matrix Requirement deployments Design of processes QP 1 , QP 2 and QP 3			NPD Culture					
1. EMS - Environment 2. Impact Analysis - Life Cycle Assessment 3. Waste Management and Control												Zero Effect						Carbon Foot Print Reduction Cost Reduction Conducive Work Environment			Zero Effect Culture					
1. Application of 5S to 6M 1.1 6M Concept design and implementation 1.2 Checklist for Advance 5S												Advance 5S						P , Q , C Improvements Advance 5 S Audit Score			Resource Management Culture					
1. Know your Quality 1.1 Poka-yoke, Auto Measurement and control 2. Concept of 100% inspection 3. Quality Management systems 4. Part handling												Zero Defect						% of Zero Defect processes % of Zero Rework/ Repair/ Rectify Processes % of Dent and damage free processes			Zero Defect Culture					
1. Know your Product, Process and Work 1.1 LCA , Poka-yoke & concept of Zero Breakdown 2. Know your Internal Customer 2.1 Concept of 100% Inspection												Develop Employee Skill						% of deskilled operations % of Gauging free processes			Skill Culture					
1. Suggestion Scheme / Kaizen / SGIA / QCC / CFT 1.1 Suggestion scheme 1.2 Talent Development 1.3 QC Tools and Formats												Involve All Employees						% Involvement PQC Improvements			Involvement Culture					
1. Must be Facilities Implementation 1.1 Checklist for Must be Facilities 2. Basic 5S Practise 2.1 Checklist for 5S 3. Safety												Keep House in Order - Organise						On Time Periodic Audit and corrective Actions Must be facilities score 5 S Score Safety Frequency / severity, No of Accident free days			Discipline Culture					
Property of ACMA and CII 2015																										

Rev 1 : June 2016

* Note : timelines mentioned are guidelines , All course contents to be delivered within total duration of program



Launch of ACMA- GIZ- TERI

One Year Project on Resource Efficiency on 25th April 2016

Participating Companies :

- Admach, Faridabad
- Sterling tools, Faridabad
- Wheels India, Rampur



- **Objective :** To improve resource efficiency & utilization of secondary resources
- **Scope :** Material, Energy, Water and Waste
- **Deliverables :** Material yield improvement, Energy usage to be reduced by 30%, Water consumption to be reduced by 40%, Waste utilization.

ACMA/ UNIDO CLUSTER PROGRAM - 12 months (to address needs of Tier II/ III companies)

Benefits

- Floor space utilization: 25%
- Absenteeism: 30%
- PPM:50%
- Waste Reduction:50%
- On time deliveries: 25%

- M/C breakdowns: 30%
- Set up times: 35%
- Lead times: 30%
- Inventory turns:25%
- Implement KPIs (Key Performance Indicators) tracking.
- Strong monitoring & review mechanism for "Sustenance & Continuous Improvement"
"Return of investments in 3 months"

Fees Structure for ACMA Members for 12 months Program (Service tax extra)

Companies upto Rs. 10 crores P.A turnover: Rs.60,000/-
Companies between Rs. 11 and 20 crores P.A turnover: Rs.90,000/-

Companies above Rs. 20 crores P.A turnover: Rs.1,20,000/-

(Rs.5,000 extra will be charged for non ACMA members)

Strengths of ACMA UNIDO Programs: Dedicated, passionate, qualified, experienced and competent counselors. Use of easy to adopt training material (with depth and breadth)- covering modern manufacturing practices, performance indicators, archives of photos, videos, results achieved etc.

Essence of the Program: Help create a sustainable, continuous improvement culture with problem solving competencies and robust monitoring/review mechanisms and built on a foundation of 'Total Employee Involvement'.

8th ACT Team Meet 19th to 21st January 2016, Jaipur

ACMA Centre of Technology conducts regular meets to review the progress of its team and also provides a platform to exchange their views. Such meets are always conducted with a visit to a Plant.



19th January, 2016

Conference

20th January, 2016

Model Plant Visit at M/s National Engineering Industries Limited, Jaipur

21st January, 2016

Training Program on- "Team Bonding"

ACMA Awards 2016 - Nationwide Awareness Sessions for Members



7th April, Pune



13th April, Chennai



14th April, New Delhi



27th April, Jamshedpur

Forthcoming Programs: Launching Shortly

1st Innovation Cluster- Efficient Resources, Future Mfg concepts, Constraints free thinking , Adaptive controls, Profit Improvement

1st Digitization Cluster M/C speaks to M/C and Human , Processes speak, Decide and take control

1st NPD Design Cluster Achieve at Design stage and develop structured design capability.

Leadership for Future (Mentoring CEOs) Not only develop , but learn process of development of leaders M.Sc. In Advance Lean Mfg (India –UK) Joint program.

IMPACT now Advertisement Tariff from Dec., 14 Onwards

Advertisement Type	Advertisement for Single issue (INR)		Advertisement for one year (three issues) (INR)		Advertisement for two years (six issues) (INR)	
	Member	Non Member	Member	Non Member	Member	Non Member
Front Cover Outside	50000	65000	135000	175000	225000	292000
Cover Leaf Front - 2 Page Advt.	35000	45000	95000	123000	157000	204000
Cover Leaf Back - 2 Page Advt.	30000	39000	81000	105000	135000	175000
Footer Advt. - Company Logo & Slogan- (excluding Advt. pages)	30000	39000	81000	105000	135000	175000
Back Cover Outside	20000	26000	54000	70000	90000	117000
Centre Spread (2 Page Advt.)	25000	32000	67000	88000	112000	146000
Centre Spread (4 Page Advt.)	50000	65000	135000	175000	225000	292000
Cover Inside (Front or Back of Newsletter)	13000	17000	35000	45000	58000	76000
Inside Full Page	11000	14500	30000	39000	50000	64000
Half Page	6600	8600	17800	23000	30000	39000
Quarter Page	3900	5000	10000	13000	18000	23000

Note:

(1) Service Tax will be charged extra, as applicable.

(2) Advt. Size for Full Page: in inches: 8.5"(width)X11"(Height) (3 mm bleed extra)

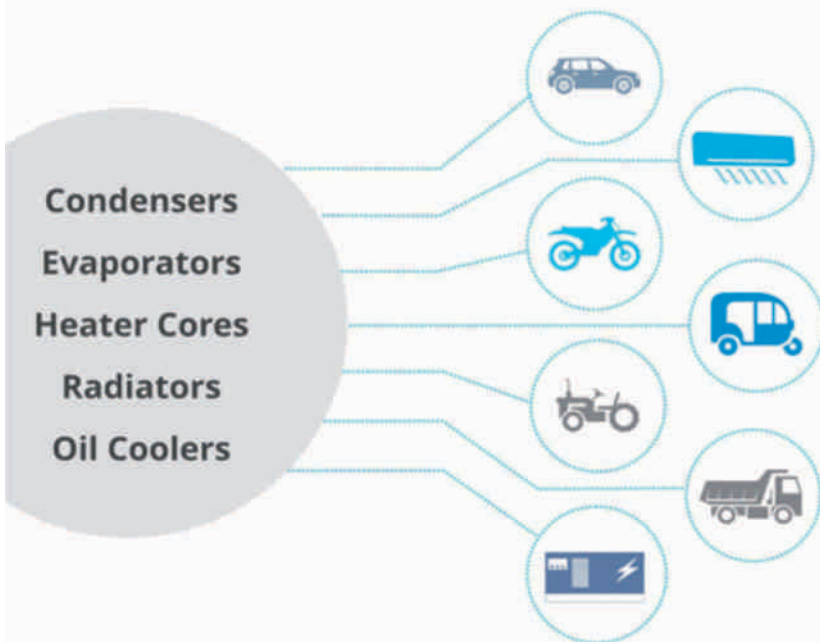
(3) Advt. Size for Half Page: 8" (width) X 5.25" (Height)

Terms and Conditions:

- Advertisement should be an open file with all fonts and links with a color reference printout.
- Advertiser should ensure that the size of advt. material provided by him is as per the size of the advt. space booked by him.
- In case of a mismatch between size of material provided and space booked, the advertiser will be charged the cost of space booked OR actual advertisement printed, whichever is higher.
- All payments, through DD, Cheque or Net banking, should reach ACT within 30 days from the date of invoice.



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About Talentonic

Talentonic is an HR consulting, research and products company which was set up by senior HR professionals with both consulting and practicing experience. Talentonic is a scalable HR Services business, which can support Clients' need for growth and increasing sophistication of HR solutions. Our solution areas include



Strategic HR Consulting



HR Point Solutions



Technical HR



HR Products

Our experience in the Automobile Sector

- We have conducted audits for more than **50 auto component** companies on behalf of OEMs and Auto Associations to capture best practices in HR service delivery
- Currently partnering with a number of companies in the sector in defining, designing and implementing their HR plans in the long and short term including running engagement and 360 feedback survey

Consulting Solutions

- Vision, Mission & HR Strategy
- Organization Structuring, Role Definition & Grading (Job evaluation)
- Compensation and Rewards Management
- Performance Measurement & KPI cascade using frameworks like Balanced scorecard
- HR Policies and Procedures
- Development / Assessment Centers
- Manpower Planning and Optimization
- Coaching and Leadership development
- Integrated offering to manage growth journey of an organization.

Product Solutions

talent**3sixty**

- A 360-degree assessment tool, which allows you to use your own competency model

talent**maturity**

- A tool for assessing the maturity and satisfaction with 8 major HR processes & 45 sub-processes.

Employee**Engagement**

- A global employee engagement solution, which is supported with a unique action learning solution, which helps to enhance engagement.

www.talentonic.com

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