

## INTRODUCTION

Parts cleaning, like most metalworking processes, are experiencing ever tightening specifications. Owing to the constantly increasing requirements in terms of efficiency, quality and environmental protection, the cleaning of industrial parts has become absolutely essential in modern manufacturing processes. It is highly critical especially in case of automotive components, aerospace parts and medical implants.

However, Parts cleaning is often the most ignored area in the production lines. Cleaning is commonly considered as non value adding process; without evaluating the consequences of ignoring component cleaning. A successful cleaning process requires careful selection of both the cleaning chemistry and equipment. Cleaning process is influenced by various factors viz. manufacturing process, cleaning media, surrounding conditions, work piece quality, parts handling, machine technology, testing process (Millipore test), etc.

This programme will provide in depth knowledge about the industrial cleaning processes supported by real time case studies from various manufacturing sectors (automotive & general engineering) and live demonstrations. Experts presenting technical seminar would also share their vast experience in component cleaning and best practices followed in the world.

Keeping this in mind, IMTMA is conducting a training program on ‘**Cleaning of machined components.**’

## FOCUS AREAS

- Importance of industrial parts cleaning
- Cleanliness testing methods
- Inspection procedure in determining cleanliness.
- Different types of cleaning media; Selection of right cleaning media
- Important factors influencing cleaning results; Influence of ambient (surrounding) conditions
- Combining Cleaning Technologies; multistage cleaning systems using automated material handling
- Cleaning Chemistry - Insight and recent trends
- Cleaning of automobile parts; user perspective
- Industry visit for demo of cleaning equipment / process

\*Note: Factory visit of participants for demo will be subject to the approval of the hosting industry

## KEY TAKE AWAYS

After undergoing the programme, the participants will be able to –

- Understand how to measure cleanliness of parts as per standards
- Know different types of cleaning processes and media used
- Select proper method for cleaning machined parts
- Understand factors influencing cleaning results

## PARTICIPATION FEE

**Rs. 5000/-**  
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 200/-**  
**Overseas Participants**

**Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company**

## PARTICIPANT PROFILE

This programme will benefit Managers, Engineers and Middle management personnel involved in the functions of Production, Manufacturing, Quality Assurance and other related areas from Automobile and Auto Ancillaries, Aero space, Medical, General Engineering and other Manufacturing Industries.

## FACULTY

This Program will be conducted by **Mr. Avinash Khare & Industry experts from Ecoclean Machines Private Limited.**

**Mr. Avinash Khare**, Advisor IMTMA has been designing, developing content and delivering wide range of Training Courses as a Faculty. He is an Electrical Engineer by Qualification and he has worked for over 33 years at Tata Motors Pune in various capacities ranging from R&D in Industrial Electronics, Machine Maintenance, Technology Procurement, Head of Machine Shops, Tool Room Shop Head, Head of Die Design and Champion in Business Excellence. He has taught Instrumentation and Bio-Medical Instrumentation at Pune University as part-time faculty

### For Registration Contact

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**REGISTRATION** : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.

**Important Information** : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.