

# Low Cost Automation and Quick change over techniques

Date : 11 - 12 December 2017

@ IGTR ,Aurangabad

'Automation' is perceived as a cutting edge of competitive manufacturing and assumes paramount importance in facilitating increased productivity while reducing production costs. Automation can be deployed in a wide range of activities such as loading, feeding, clamping, machining, welding, forming and so on. For automation to be successful, several aspects such as selection of automation system, system integration and organizational environment need careful consideration. The range of automation tools vary from simple, low-cost equipment to highly sophisticated and expensive systems. Appropriate level of automation reduces cost in manufacturing not only through increased productivity, but also improves quality through consistent and reliable production.

The need for idle time reduction through quick changeover / set-up time reduction is becoming significantly important due to increased demand for product variability, reduced product life cycles and the need to reduce inventories, in metal working. The manufacturers must have the ability to produce smaller batch quantities and deliver them more quickly. They must be able to utilize equipment for as many different parts as possible.

Keeping this in view, Deutsche Gesellschaft für Internationale ,Zusammenarbeit (GIZ) GmbH & Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a 2 day programme on **Low Cost Automation and Quick change over techniques** on 11 - 12 December 2017 at Aurangabad.

## FOCUS AREAS

- Concepts of Low Cost Automation
- Economic Justification of Automation
- Automation System Integration and Implementing Automation Successfully
- Pick & Place Systems Sensing Elements for Automation
- Latest Trends in Automation for Manufacturing & Assembly
- Concepts of set-up/ changeover time and benefits Review of waste in processes
- Relation between change over and waste
- Systematic approach to idle time reduction implementing set-up changeover improvements

## Key Take Aways

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

1. Understand the principles of low cost automation and implementation.
2. Learn the levels in automation and their selection based on requirements
3. Identify / follow the road map for automation integration and implementation
4. Understand the types / selection of pick and place systems used in automation
5. Relationship between setup time reduction & profitability
6. Set up time reduction and waste

## Participant Profile

This programme will benefit Mid and Senior Level Managers in Production, Manufacturing, R&D and Design functions. Attendees are expected to have basic knowledge of Automation Elements and Functions of Systems.

## Faculty

This programme will be conducted by Mr. Naresh Kantoor, Managing Director, Encon Systems & Mr. Gautam Doshi, Advisor, IMTMA .

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

### Important Information :

Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register by sending an email to Mr Tasvar Ali by filling up the nomination authority and participant's details in specified form.

### About IMTMA :

Indian Machine Tool Manufacturers' Association (IMTMA) is the single point of contact for the machine tool industry in India. The Association has over the years transformed itself to looking beyond, to focus on issues of productivity, quality, technology, new product development, design, customer satisfaction, etc. for enhancing competitiveness of the industry in both domestic and Foreign markets. IMTMA has established a state-of-art facility at IMTMA Technology Centre, BIEC, Bangalore. IMTMA offers 150 programmes over 80 Topics for the industry. It also conducts a comprehensive 'Finishing School' programme in Production Engineering for fresh engineers. It has delivered over 66000 Man days programmes in PRODUCTIVITY, QUALITY, RELIABILITY, DESIGN, AUTOMATION, MAINTENANCE AND MANUFACTURING



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IMTMA Technology Centre

Indian Machine Tool Manufacturers' Association

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For Registration contact :

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**Participation Fee**  
(Non Residential - 2 days)

**Rs. 1000/-**  
+ 18% GST per participant

Contact Address

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