



INTRODUCTION

The course is structured with introduction to Fixture Design basics to final design. Design of fixture is key to effective utilization of machine tools. Basics of fixture design if not implemented correctly results in poor productivity & quality problems. Set-up time and cycle time reduction, increased accuracy on components, deskilling the job setting operation are the obvious advantages of a good fixture. Competence in right fixture differentiates excellent organizations.

A complete process of fixture design will be carried out from concept to finish design. Pre-design activities like design input, conceptualization, process planning, accuracy consideration, cycle time estimation, POKAYOKE, 3D modelling of parts and assembly, using popular design CAD tools and preparing the final manufacturing drawings. Design for Accuracy, Manufacturing and Assembly will be addressed during the course. It will be highly interactive and hands on training session and covers entire 360° view on all types of fixture design aspects.

FOCUS AREAS

- Fixture design fundamentals
- Introduction to Jigs and fixture - Basic elements
- Study of component drawing for accuracy, cycle time, location, clamping and manufacturing process
- Design exercise for simple fixtures
- Introduction to hydraulics for fixture
- A complete design project on fixture design for auto component
- Hands on training using one of the popular cad tool
- Introduction and conceptualization to BIW, Assembly, Welding and Inspection fixtures
- Case studies on all types of fixtures will be reviewed for better understanding

KEY TAKE AWAYS

- Comprehensive design knowledge fixture design
- Knowledge on design of simple fixture to complex fixture
- Knowledge on CNC Machine tools
- Hands on experience in fixture design
- Knowledge in systematic approach on fixture design
- Conceptualisation towards BIW, Assembly, Welding and Inspection fixtures

FEE PER PARTICIPANT (PER LOGIN)

Rs. 9000/-

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

+ 18% GST

FACULTY

This programme will be conducted by -

Mr. S K Gupta, has worked as an Assistant General Manager, Machine Design & Business Development, Tata Motors - Machine Tools division, Pune. He has over 3 decades of professional experience in the field of Machine Tools and Fixturing practices.

Mr. Avinash Khare, has worked as an Assistant General Manager at Tata Motors, Pune. With more than 33 years of experience in various functions involving Technology Development, Maintenance, Capex and resource management, Die Design and Business Excellence. Currently he is working with IMTMA as a Consultant & Head of Technology Centre on Metal-forming at Pune.

Mr. BL Patil, Senior Executive Officer at IMTMA, is Mechanical engineering graduate, has a professional experience over 28 years in manufacturing domain as designer of machines and fixtures. He worked in Kinetic and Avasarala Automation, Bangalore.

Mr. M Khallaq, Managing Director, M/s Excel CNC Machines, Bangalore has over 40 years of professional experience in machine design from HMT and as an entrepreneur.

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