Manufacturing Technology Training
An IMTMA initiative

Applied Welding Technology For Engineering Professionals
Date : 19 to 20 November, 2026
Venue : IMTMA Technology Centre, Bengaluru

Last date for registration 12 November 2026

INTRODUCTION

Welding is a critical manufacturing and joining technology used extensively in power, defence, aerospace, automotive, railways, heavy engineering, oil & gas, infrastructure and fabrication industries.

For engineering professionals, effective application of welding technology requires more than knowledge of welding processes. It involves understanding **materials, weldability, process selection, welding parameters, joint design, welding procedures, defects, inspection, quality requirements and applicable standards**.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a 2 days offline training programme on **“Applied Welding Technology for Engineering Professionals”.**

The programme combines welding science, engineering principles, practical considerations, quality control and applicable international standards, enabling participants to make better technical decisions related to welded fabrication.

FOCUS AREAS

Welding Processes & Applications

- SMAW, GMAW/MIG-MAG, GTAW/TIG, FCAW, RAW and SAW
- Process selection and industrial applications
- Welding equipment and consumables
- Welding parameters and their influence on weld quality

Materials & Weldability

- Carbon and low-alloy steels
- Stainless steels and duplex stainless steels
- Carbon Equivalent and weldability
- Preheating, interpass temperature and PWHT

Welding Engineering

- Joint design and welding symbols
- Welding positions and techniques
- Distortion and residual stresses

Welding Quality & Inspection

- Common welding defects and their causes
- Visual inspection & Weld acceptance criteria
- NDT methods and their applications
- Welder qualification and procedure qualification

Standards & Quality Systems

- ISO 3834 – Quality requirements for fusion welding
- ISO 15614 – Welding Procedure Qualification
- ISO 9606-1 – Welder Qualification
- Relevant AWS/ASME requirements

KEY TAKE AWAYS

At the end of the programme, participants will be able to:

- Select appropriate welding processes and consumables for different applications.
- Identify major welding defects, their causes and preventive measures.
- Interpret welding symbols, joint configurations and basic welding documentation.
- Apply relevant ISO/AWS/ASME requirements in practical situations.
- Improve welding quality, productivity and reliability in their organisations.
- Make technically sound decisions when dealing with welding-related manufacturing and inspection issues.

PARTICIPATION FEE

Rs. 4999/-	Rs. 2500/-	Rs. 999/-	USD 200/-
+18% GST	+18% GST	+18% GST	
IMTMA Members/ Micro Companies/ Individuals/ IMTMA Non Members/ Others	**Professors**	**Student**	**Overseas Participants**

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

PARTICIPANT PROFILE

The programme is particularly suitable for:

- Mechanical, Production, Metallurgy and Manufacturing Engineers
- Welding Engineers and Welding Supervisors
- Welding Inspectors
- Project Engineers and Site Engineers
- Fabrication and Manufacturing Professionals
- Professionals involved in welding procedure qualification and welder qualification
- Technical consultants and trainers

FACULTY

This programme will be conducted by, IMTMA Subject Matter Expert.

He is an International Welding Engineer (IWE) and retired officer of the Indian Skill Development Service (ISDS), has over 40 years of professional experience in welding technology, skill development, training, industrial inspection and technical consultancy. He served for more than 25 years with the Ministry of Skill Development and Entrepreneurship, including as Joint Director-cum-Principal, with expertise in vocational training and competency development.

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.