

**AICTE Sponsored One Day Refresher Course  
for Welding Engineers**

on

**Applications of Advanced Gas Metal Arc  
Welding Process**

30<sup>th</sup> January, 2016

Name :

Designation :

Office Address :

Mobile :

E-mail :

Age : \_\_\_\_ Years

Sex : Male / Female

DD Details :

Amount : Rs. No. :

Date : Bank :

Date:

Place:

Signature of Applicant

Signature of Competent Authority

**ORGANIZING COMMITTEE**

**Chief Patron** : Dr. S. R. K. Prasad  
Correspondent, CIT.

**President** : Dr. R. Prabhakar  
Secretary, CIT.

**Patron** : Dr. V. Selladurai  
Principal, CIT, Coimbatore.

**Organizing  
Secretary** : Dr. N. Murugan  
Professor of Mech. Engg., CIT.

**Joint Secretary** : Dr. R. Sathiskumar,  
Asst.Prof. of Mech. Engg., CIT.

**IMPORTANT DATES**

**Receipt of Application** : 25.01.2016

**Intimation of Selection** : 27.01.2016

**ADDRESS FOR REGISTRATION &  
CORRESPONDENCE**

**Dr. N. Murugan**  
Professor

**Department of Mechanical Engineering**  
**Coimbatore Institute of Technology**  
**Coimbatore -14.**

**Contact Information**

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**One Day Refresher Course for  
Welding Engineers  
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**Applications of Advanced Gas  
Metal Arc Welding Process**

**30<sup>th</sup> January 2016**

**Under  
Quality Improvement Program**



**Organized by**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**COIMBATORE INSTITUTE OF TECHNOLOGY**  
**CIVIL AERODROME POST**  
**COIMBATORE**  
**TAMIL NADU - 641014**

**In Association With**



**INDIAN WELDING SOCIETY**  
**COIMBATORE CENTRE**

### **ABOUT THE INSTITUTION**

The V. Rangasamy Naidu Educational Trust devoted to the cause of promoting Technical and Scientific Literacy, established Coimbatore Institute of Technology (CIT) in 1956. CIT is one of the most reputed and prestigious educational Institutions in South India. The Institute endorsed by world class research and development attained autonomous status in 1987 and is affiliated to Anna University, Chennai. The Institute features strong Academic-Industrial Interaction and a high quality of research and consultancy. CIT, managed by a pedigreed lineage for the past 57 years, enjoys international repute. The Institute has the services of competent and qualified faculty, and the guidance of a visionary management to enhance the quality of education at all levels and maintains its preeminent position in emerging globalization.

### **ABOUT THE DEPARTMENT**

One of the founding departments of CIT, the Mechanical Engineering Department has played a leading role in evolving an 'Engineering Science' based curriculum. Today, the department of mechanical engineering of CIT attracts and features an extraordinary rich diversity and quantity of talented individuals, with nearly 500 undergraduates which includes full time and part time, 60 graduate students and over 35 faculty members. The department served as a role model for many academic institutes in and around Tamil Nadu. Apart from teaching undergraduate and post graduate students, the faculty of Mechanical Engineering actively pursue research through graduate students and research scholars. Over the years, interaction with industry and the emphasis on applied engineering has increased. Continued research and development have led to better machines and processes helping the mankind. The Mechanical Engineering Department of CIT has been a pioneer in establishing Welding Research Cell for dedicated research in the field of Welding. To its credit it has produced about 30 PhDs over the period and still a lot of researchers are

carrying out their PhD work here. It also serves as the Indian Welding Society, Coimbatore Centre.

### **ABOUT THE COURSE**

The gas metal arc welding process is dominant today as a joining process among the world's welding fabricators. Despite its sixty years of history, research and development continue to provide improvements to this process, and the effort has been rewarded with high quality results.

The main objective of the refresher course is to provide basic concepts and advanced knowledge about various GMAW processes & its applications to the welding engineers of industries. Also it is aimed to present an in-depth knowledge about the latest trends in the field of GMAW technology.

### **TENTATIVE TOPICS TO BE COVERED**

#### **The course will cover the following topics**

1. Basics of Gas Metal Arc Welding (GMAW) and general welding guidelines
2. Advanced GMAW processes – Pulse, Rapid arc, CMT, Tandum, etc
3. Wave form control technology
4. Welding power source w/o power Grid-Accupocket
5. Steel Welding – TansSteel
6. Intelligent Power source – TP Si robotic system integrated with Robot
7. Virtual welder
8. Flexi track - welding Carriage, FDV

Demonstrations to the participants on the latest GMAW processes and practical applications will be performed. The participants can bring their

components to be welded and realise the use of latest GMAW processes and technology.

### **RESOURCE PERSONS**

**Dr. N. Murugan,**  
Professor of Mechanical Engineering,  
CIT, Coimbatore.

**Dr. K. Devakumaran**  
Deputy Manager, WRI, BHEL, Trichy

**Mr. P. Sasianand,**  
Fronius India Private Limited,  
Pune.

**Mr. P. Gopi**  
Panasonic Welding Equipment Division  
Delhi.

### **ELIGIBILITY CRITERIA**

Engineers and supervisors from Industries are eligible to apply.

### **REGISTRATION**

Registration will be based on the first-come first served basis to the maximum of 30 participants.

The registration fee is Rs. 500.  
The registration fee for IWS members is Rs.400.

The payment should be made by means of a DD drawn in favour of "The Principal, Coimbatore Institute of Technology, Coimbatore-641014, payable at Coimbatore". The filled-in registration form is to be sent along with the DD to the Organizing Secretary.