

## Registration Fees

Category	Rate in ₹
Individual	₹ 8,625.00
Corporate (3 delegates)	₹ 23,288.00

Inclusive of Service Tax

Delegate Fees includes Course Material, Tea & Lunch etc. during the programme.

Payment to be made in favor of  
**'FOUNDRY AND FORGE TRAINING CENTRE'**  
payable at Pune.

### RTGS / NEFT Details

Account Name : FOUNDRY & FORGE TRAINING CENTRE  
Bank Name : UCO Bank  
Branch Name : Deccan Gymkhana Branch  
Account No. : 06870200000612  
IFSC Code : UCBA0000687  
MICR : 411028009  
Type of A/c : Current A/c

For Registration Please Contact

### FOUNDRY AND FORGE TRAINING CENTRE

A Division of ARKEY TECHNICAL TRAINING & RESEARCH INSTITUTE (TRUST)  
'Guruprasad', 1<sup>st</sup> Floor, 37/4/A, 6<sup>th</sup> Lane, Prabhat Road, Pune 411 004, India  
Tel.: +91 20 2565 1717, 2567 0808 | Mobile: +91 97647 11315  
E-mail: fftc@arkeycell.com, mail@arkeycell.com

## Course Faculty

- Mr. Anil Bhalchandra Kulkarni, Pune**  
Mr. Anil Bhalchandra Kulkarni Metallurgy Engineers (1969) with lead Assessor Certification. Post Graduate in Quality Management & System. He has 30 – 32 years of Industrial experience in Quality Assurance and over 8 years heading Metallurgical Lab.
- Mr. Y. S. Gowaikar, Director, Metatech Industries, Pune**  
B.E. (Met.) MBA. He is in the field of developing various types of Metallography machines & instruments with latest technology. Since last 22 years he is doing these activities through Metatech (I) Pvt. Ltd. Presently he is Managing Director of Metatech (I) Pvt. Ltd.
- Mr. Shrirang Patwardhan, Regional Manager -Industry Division, Leica Microsystems, Mumbai**  
Representing Leica optical microscope products for last 16 years. With products like Metallurgical & microscopes, stereo microscopes & Image analysis softwares suitable for material testing.
- Amol Thakur Pratishthan Alloy Castings, Aurangabad**  
He completed his graduation in metallurgical engineering from college of engineering Pune in year 1988.  
He started his career from ISMT group and contributed his 8 years in various departments like Quality Assurance, Hotmill Production, Quality Upgradation Cell etc.  
He took new assignment in Jindal Seamless at capacity of Hotmill Production incharge for production of seamless tubes in stainless steel grades.  
Presently working with Pratishthan Alloys Pvt Ltd at capacity of VP operations and Chief metallurgist R&D.  
He has contributed in the development of import substitutes for paper industry from last 15 years and export to more than 25 countries.



Training Programme  
on

## METALLOGRAPHY

15 - 16 (Wed -Thu) February 2017

at

**MARATHWADA AUTO CLUSTER**  
**P-174, Waluj MIDC**  
**AURANGABAD - 431 136**

Timing : 9.00 a.m. to 5.00 p.m.

Endorsed by



Organised by

**FOUNDRY AND  
FORGE TRAINING CENTRE**

A Division of ARKEY TECHNICAL TRAINING &  
RESEARCH INSTITUTE (TRUST)

## Introduction

Metallography constitutes an important aspect in material testing right from steel mill to final component manufacturing.

It validates the process for the microstructure, and its interpretation.

Sample selection, preparation, etching, observation under microscopes, choosing right contrasting techniques, quantification of the microstructure etc are basic techniques performed in metallography practices.

The course addresses all these aspects in detail, covering various case studies in preparation as well in interpretation part to give insight of metallography.

Also the live demonstrations of few machines, allowing candidates to handle the same by their own hand increases the confidence about the subject.

Interesting videos explaining the difficult concepts, can impart in depth knowledge of machine working, process, and phenomena.

Structure property correlation, explained by the experts, depicting various micro structures, live on the screen helps candidates, better understanding the subject.

The course is helpful for the people working in laboratories, budding engineers, auditors unfamiliar with metallography, purchase executives, vendor development engineers and even experienced metallographers and metallurgists.

We appeal to you to take advantage of this unique course, delivered by eminent personalities in the field, sharing their expertise and knowledge.

## Technical Topics

1. Microstructural Analysis-why is it Needed?  
Some of the Material Properties that are Affected By Microstructure.
2. Metallography Specimen Preparation  
Various Processes Like Sectioning, Mounting, Grinding, Electro Polishing, In Situ Applications.  
  
Selections of Machines, Their Automation, Technology and Parameters, Consumables Selection and Related Case Studies.
3. Construction of Microscope, Concepts of Resolution, Calibration, Dark Field, Bright Field, Dic etc. Videos  
  
Consumable Optimisation
4. Quantitative Image Analysis, Concept, Calibration, Various Modules, Live Demonstration.
5. Live Demonstration of Various Microstructures and their Structure Property Correlation.
6. Failure Analysis Approach and Few Case Studies.
7. Videos of Machines, Processes.
8. Case Study in Investigate Metallurgy, Focusing Metallography

## Unique Opportunity for

- Young Metallurgist
- Practicing Metallurgist
- Lab Technician
- Vendor Development Engineers
- Q/A Personnel
- Quality Assurance

To  
**Participate & Enhance  
your Knowledge**

**Demonstration of  
Machines on our samples**

**WE ENCOURAGE & INVITE  
SAMPLES OF YOUR  
ORGANISATION  
FOR DISCUSSION \***

\* Registered delegates are requested to inform us well in advance about their problems on the subject for discussion during the programme.