

### PIP Overview:

If you are looking for a way to boost your material and enhancing materials knowledge and take your Design, Manufacturing team to next level, then look no further, **Basic and Advances in Heat Treatment** is here to help !

Heat Treatment (HT) process has graduated from basics to advance technologies like vacuum heat treating, laser, surface hardening, plasma nitriding, etc. To remain competitive the heat treating industry must understand and adopt these techniques. This training is must to attend for heat treaters, designers, academicians, and users of heat treating industry.

This training course consists metallurgical, technological & operational background to heat treatment process of cast & forged products. It explains HT process basics, process controls, and how structures & mechanical properties can be achieved. It also elaborates process problems & their remedies, in addition quality control procedures. Faculty working in HT will brief fundamentals of steel heat treatment & metallurgical processing, atmosphere control, quenching, temperature control and type of equipment for different types of heat treating operations. Also will give a bird's eye view on advanced concepts in thermal and thermo-chemical surface treatments, such as case hardening, and principles of thermal engineering (furnaces).

The course is designed for participants having no prior metallurgical training & has basic understanding of simple chemistry and physics. Steel being important engineering material, training covers practical heat treating of carbon, alloy, stainless and tool steels.

### What's in it for you?

- Why Steel being important engineering material
- Basics of metallurgy & Fe<sub>3</sub>C diagram
- Grain, Grain Size, different Phases in materials, and alloy steels
- Bulk Heat Treatment processes
- CQI 9 HT Standard (AIAG) and **many more...**

Learn from  
Industry  
Experts!

### Who is it for?

- Users of Heat Treating Industry (OEM's or Tier1 companies)
- Heat Treaters and Shop Personnel
- Buyers of heat treated components
- Heat Treating Designers, Manager & Technicians
- Sales Professionals of HT Equipment, Material and Fuels
- Academicians, student and faculties Engineers / Managers working as Supervisors, Technicians, Graduate / Diploma Trainees & Executives, who are responsible for end product properties.

### Pricing Category

### Registration fees per person (incl. 15% Service Tax)

Industry Professionals	Rs. 8000 + Rs. 1200 = Rs. 9,200
Teaching Professionals	Rs. 6,000 + Rs. 900 = Rs. 6,900

### Contact Information:

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Save the dates!

19<sup>th</sup>-21<sup>st</sup> July 2017  
At ARAI,  
FID- Chakan, Pune

