



Powder Metallurgical Association of India

www.pmai.in



COEP Tech

“HEAT TREATMENT OF PM PARTS AND TOOL STEELS”

9th - 10th Dec 22



The Powder Metallurgical Association of India is conducting a Two-day course on “Heat Treatment of PM Parts and Tool Steels” in offline mode at Dept. of Metallurgy and Materials Science, COEP Technological University (Unitary Public University of Govt. of Maharashtra) Pune- 4110 05 (India). The course presents a technology overview for new and prospective entrants to the PM.

PROGRAM CONTENT

Time	Day 1 (9 th Dec 22)	Day 2 (10 th Dec 22)
10:00-12:00	Introduction to Powder Metallurgy (Brief description of PM Process to understand the presence of pores and it’s relation to the post sinter treatments like electro plating, heat treatment, welding etc.)	Heat treating furnaces. Advantages / disadvantages of batch type versus continuous furnaces Heat treated properties measurement of PM Parts – Understanding microstructures
12:00-12:15	Tea Break	
12:15-01:15	Why heat treatment? Improvement in static and dynamic strength, relevance to microstructure; Heat Treatment basics	Heat treatment of tool steels; Hardening and salt bath treatment; multiple tempering; microstructure and hardness, applications to dies and toolings
01:15-14.15	Lunch Break	
14:15- 16:15	Theory of Quenching – Quenchants for PM Parts - Oils and polymers – Quench speed measurements; Types of heat treatments and their objectives mainly related to PM parts – Quench and temper	Heat treatment of tool steels; Hardening and salt bath treatment; multiple tempering; microstructure and hardness, applications to dies and toolings

Registration Fees: 5000/-

Registration details Name, Designation, Organization, Phone, and Email along with Proforma tax invoice of payment details must send to director@pmai.in

All communication may address to

director@pmai.in,

Unit 401, K Square, P.K. Shroff Road,
Near Union Bank, Baner,
Pune - 411045, India

Lead Speaker: N. L. Chandrachud

- BE Metallurgy from COEP Pune in 1974 and M.Tech Metallurgical Engineering from IIT Bombay in 1976
- Senior Scientific Officer at DMRL, Hyderabad for about 2 years
- Manager- Metallurgy for about 16 years at Telco (Tata Motors) Pune
- General Manager- Materials Engineering at Cummins India, Pune for about 10 year
- Executive Vice President at GKN Sinter Metals, Pune for about 12 years
- At present- Consultant to GKN-Hoeganaes Corporation, USA
- Past Vice President of PMAI and Fellow PMAI
- At present Member - Governing Council, PMAI

Expert Speakers:

Mr. Sandip Menavlikar
Dr. N.B. Dhokey

