



## Training Programme on "Principles of Grinding & Trends in Abrasive Machining"

### Who would benefit

- Production Engineers, Supervisors and Managers who are responsible in grinding of precision components and delivering productivity
- Those who are involved in high speed precision grinding
- Those who have the challenging task of producing components from hard-to-grind materials
- Tool Room Engineers and Personnel responsible for Planning and Procurement of Tooling
- Mechanical / Production Engineering Students

### Programme Outline

#### Conventional Abrasives

- Types and their properties (Aluminium Oxide, Silicon Carbide, Ceramics)
- Grinding wheel bonding systems
- Interaction with material, grinding fluids, filtration and their selection
- Grinding system engineering
- How to specify the wheel for the job – material,

#### Super Abrasives

- Properties
- Types of bonding systems
- Influence of super abrasives on material removal, productivity and surface finish
- How to specify a wheel for the job – FEPA specifications

hardness, porosity, grain types and size

- G-ratio
- Surface integrity issues
- Wheel mounting and balancing
- High speed grinding
- How to choose the correct dresser
- Trouble shooting
- Review and assignments
- Effect of speed for super abrasive grinding
- Grinding hard-to-process materials
- Flanging, mounting and balancing
- Truing and dressing, dressing tools
- Trouble shooting
- Review and assignments

### Your investment

Total investment for this 3 day training programme per participant will be Rs.16,000.00 plus Service Tax as applicable. The above amount includes course material, boarding and lodging etc. Accommodation will be on twin share basis.

#### Special Offer:

Sponsoring Organizations can avail the following benefits:

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|----------------------------|---|
| ● 2-3 participants         | Rs.15,000.00 plus service tax per participant |
| ● 4 and above participants | Rs.14,000.00 plus service tax per participant |

For those participants who live in the vicinity and do not avail accommodation, the Registration Fee in such cases will be Rs.10,000.00 plus service tax extra as applicable. However the Special Offer will not be applicable.

Registration will be accepted on first-cum-first basis as the number of participants in each batch is limited to 30.

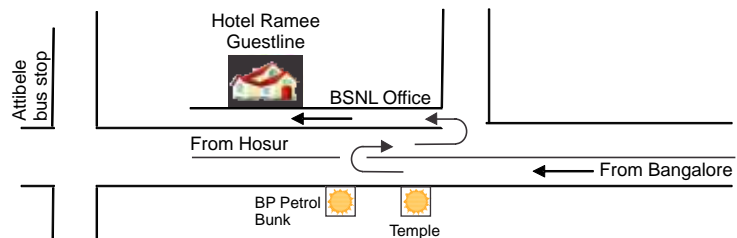
Early bird discount of 5% will be offered to the participants enrolling before two weeks of the commencement of each programme.



## Venue

The programme will be conducted at:  
 Hotel Ramee Guest Line  
 KIADB Industrial Area, Next to BSNL Office,  
 Hosur Road, Attibele, Bangalore - 562 107  
 Phone: 080-22898500

Please refer to the route map to reach the venue.



## Programme

Day 1 (9.00AM to 5.00 PM)	Day 2 (9.00AM to 5.00 PM)	Day 3 (9.00AM to 1.30PM)
Session 1 Grinding Basics Wheel Selection Workshop	Session 1 Introduction to Super Abrasives Wheel Selection for the job - FEPA Specifications Special considerations for Super Abrasive grinding System Approach	Practical Demonstrations Conventional Abrasives Wheel Balancing Testing Super Abrasives Wheel Truing & Dressing Mounting on Flange and Assembly, Dynamic Wheel Balancing  Issue of Certificates  Closing
Tea	Tea	
Session 2 Grinding Principles Grinding Wheel Manufacturing & Balancing High Performance Grinding & Bond Systems Coated Abrasives	Session 2 Truing & Dressing Balancing, Coolant selection for Super Abrasive Wheels Grinding Conditions and Parameters Preparing to grind with Dia/CBN	
Lunch	Lunch	
Session 3 Trouble Shooting Metal Working Fluids & Selection Workshop Selection of Dressers	Session 3 Bonding systems for Super Abrasive Wheels Guide lines for Selection and Evaluation Various Dressing Tools & guide lines	
Tea	Tea	
Session 4 Case Studies Emerging Trends & System Approach Workshop Questions & Answers	Session 4 Trouble shooting Questions and Answers Assignment	

We urge the participants to identify two - three application areas in grinding which are critical to the department / organisation and needs improvement. These could be either discussed or taken as projects subsequent to attending the training programme.

We will be pleased to associate ourselves with technical support/assistance post training programme through our Product Specialists.

For more details contact:  
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 Program Co-ordinator  
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