

Surface Roughness Measurement and Validation

Date: 21 March, 2023

Time: 1310 Hrs to 1730 Hrs (Online Mode)

INTRODUCTION

In the precision engineering industry, the functional properties of a component are affected by the boundary areas (or the surface) of the component. This aspect becomes all the more important when the surface comes in contact with the surface of the mating component and is operationally related to it. The unceasing demand for increased performance, interchangeability and functional reliability has resulted in shrinking of tolerances for a precision component. As the tolerances shrink the surface aspects of the component become more and more dominant and the dimensional aspects of surface finish become exceedingly important. A serious quantitative study of the quality of a surface becomes an inseparable part of component design, manufacture and inspection to ensure proper functional behaviour of the design.

Keeping this in view, IMTMA is organizing an online training on "Surface Roughness Measurement and Validation".

Online live demo of Surface roughness tester & Measurements will be shown during the programme.

FOCUS AREAS

- Introduction to Surface finish/Surface roughness
- Importance, its occurrence and effects
- Assessment of Surface finish Systems and Parameters
- Preferred values & relation between various parameters
- Surface finish & manufacturing economy; surface finish & class of fits;
- Measurement of surface finish mechanical, optical and electric/ electronic methods & instrumentation
- Online live demo of Surface tester & Measurements.

KEY TAKE AWAYS

After undergoing the programme, the participants will be able to -

- Appreciate what is finish of a surface and why is it important.
- How to express surface finish and units of measurement.
- Understanding amplitude, spacing and hybrid parameters.
- Know about various methods of measurement and empirical relations between various parameters.
- Why so many parameters and why there is no 'one' parameter.

FEE PER PARTICIPANT (PER LOGIN)

Rs. 3500/-

+18% GST

IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others USD 140/-Overseas Participants

Group Concession : 10% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company

FACULTY

This programme will be conducted by Mr. B N Taranath and Team from Carl Zeiss.

Mr Taranath is Former Head of Precision Engineering, Central Manufacturing Technology Institute (CMTI), Lead assessor for NABL and International Accreditation Service Inc. (USA) and an acknowledged expert in the field of Precision Measurements & Metrology.

Mr. Taranath is currently working with International Accreditation Service (IAS), Los Angeles, California and USA as a Staff Metrologist, Expert consultant and Accreditation Officer. His work involves assessment of laboratories, training, expert consultations etc and assessed a large number of labs & conducted many training programmes in United States, Egypt, Saudi Arabia, Mexico, Dubai, Israel, Bahrain, India Etc. He is also engaged in setting up metrology laboratories & laboratory accreditation both in India & abroad.

For Registration Contact

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