Introduction

This course aims to introduce basic metrological concepts and practical knowledge in linear vibration area. It covers:

- Vibration measurement principles
- Measurement instrument & selection
- Traceability & calibration
- Measurement uncertainty analysis
- Interpretation of a calibration report

Course Lead

Dr Cui Shan, graduated from Nanyang Technological University, is a Scientist in Acoustics & Vibration Laboratory, NMC. She is also a SAC-SINGLAS technical assessor in the area of acoustic and vibration calibration. Since Oct 2009, she has been working with the team to establish new metrological standards and upgrade existing standards related to acoustic and vibration measurement. Her current research work and interests include pipeline leakage detection, remote sensor network calibration, measurement uncertainty evaluation of acoustic and vibration measurement systems.

Course Contents

Principles of vibration measurements
- Basic concepts and quantities of vibration measurements
- Basic instrumentation, traceability and uncertainty for vibration measurements.

Calibration setup and procedures
- Traceability
- Primary calibration standards
- Secondary calibration standards
- Accelerometer calibration
- Vibration meter calibration
- Vibration exciter calibration
- Measurement uncertainty evaluation
- Interpretation of a vibration calibration report
- Discussions with participants on their measurement issues

For Whom

Test engineers, vibration instrument users, calibration engineers, vibration consultant, construction engineers and policy makers, quality assurance and quality control personnel, WSH professionals, and process control engineers

Online-Course Registration

- Fee $425.00+GST (registration close 2 week before the course date)

Vibration Measurement and Calibration,
19 Jun 2020, 9:00 am to 5:00 pm

Please fax filled-in form to 62791992, or e-mail to shirley_tng@nmc.a-star.edu.sg to register.

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Acceptance of registration is based on first-come-first-served basis. Payment is to be made by crossed cheque to "SCEI-NMC", by telegraphic transfer, by credit card or by NETS. 50% is refundable for withdrawals in writing at least 10 working days before the commencement of the course. NMC reserves the right to cancel or postpone the course. In the event of cancellation, registration fees will be fully refunded.

Measurement Assurance Program (MAP)

National Metrology Centre (NMC) launched MAP in December 2012 with the aim to enhance the measurement capability and confidence of calibration and testing laboratories. It provides:

- Proficiency Tests (PT) to verify laboratory’s competency and measurement accuracy,
- Measurement Assurance Seminars, and
- Training and consultancy to upgrade the industry’s skills in measurements.

For more details on MAP and upcoming events, visit: www.a-star.edu.sg/nmc/map.htm

Contact Us

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