



**UNIVERSITI KUALA LUMPUR**  
MALAYSIAN SPANISH INSTITUTE

(The contents and other related details in this form is used for publication purpose only. Training module will be given to participants upon registration)

|   |                                      |                                 |                |
|---|--------------------------------------|---------------------------------|----------------|
| <b>Course Title:</b>  |                                      | <b>Course :</b>                 | <b>MEC 108</b> |
| <b>MECHANICAL VIBRATION (MEASUREMENT, ANALYSIS &amp; DIAGNOSTIC)</b>  |                                      | <b>Code</b>                     |                |
| <b>Course Background/Summary:</b>   |                                      |                                 |                |
| Training in basic vibrations is vital to understand one of the primary failure modes in all rotating machinery. Knowledge of the causes and cures of mechanical vibrations is vital to all personnel that come in contact with rotating machinery.  |                                      |                                 |                |
| <b>Course Objectives:</b>   |                                      |                                 |                |
| <ul style="list-style-type: none"> <li>• Describe the purpose and importance of vibration analysis</li> <li>• Describe the various roles in vibration analysis</li> <li>• Interpret vibration analysis data</li> <li>• Identify solutions to vibration problems</li> <li>• Identify basic machine faults and means of diagnosis</li> <li>• Operate basic vibration instrumentation</li> </ul> |                                      |                                 |                |
| <b>Target Audience:</b>   |                                      |                                 |                |
| <ul style="list-style-type: none"> <li>• Industrial workers from technicians to engineers.</li> <li>• Vibration technicians, mechanics, and plant operators.</li> <li>• Teaching staffs (vocational &amp; technical teachers), lecturers, etc.</li> </ul>   |                                      |                                 |                |
| <b>Course Duration :</b>  |                                      | <b>Min: 3 days, Max: 3 days</b> |                |
| <b>Course Contents :</b>  |                                      |                                 |                |
| <b>No</b>   | <b>TOPICS</b>                        |                                 |                |
| 1   | Introduction to Mechanical Vibration |                                 |                |
| 2   | Free Vibration                       |                                 |                |

UniKL MSI can also customize existing short courses and develop new courses to meet your personal training needs and requirements. The course duration serves as a guideline for your reference.

Please forward enquiries to Centre for Advancement and Continuing Education (ACE) .Universiti Kuala Lumpur (Malaysian Spanish Institute), Kulim Hi-Tech Park, 09000 Kulim, Kedah or via fax to:04-4032539 or email to [syazrah@unikl.edu.my](mailto:syazrah@unikl.edu.my) or call 04-4035199 / 200 (ext:112 / 185)



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|                          |  |
|--------------------------|--|
| 3                        | Force Vibration                          |
| 4                        | Vibration measurement & data acquisition |
| 5                        | Natural frequency                        |
| 6                        | Spectral signature analysis              |
| 7                        | Fault and Diagnosis                      |
| <b>COURSE STRUCTURE:</b> |  |
| Practical :              | 40%                                      |
| Theory :                 | 60%                                      |

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