



**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)

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|--|--|-------------------------------------|
| <b>Course Title:</b><br><b>DIGITAL ELECTRONICS FOR PNEUMATICS &amp; HYDRAULICS APPLICATION</b>   |  | <b>Course Code</b> : <b>EEA 147</b> |
| <b>Course Background/Summary :</b><br>Digital electronics are an important element being used for electronics, automation system for house appliance and industry. This course will introduce the participants to make use and apply this electronics circuit IC (AND, OR, 555 TIMER, SR, etc) for the application of motor control.                   |  |                                     |
| <b>Course Objectives:</b><br>At the end of this training, the participants will be able to/have: <ul style="list-style-type: none"><li>• Acknowledge digital circuit elements for pneumatics and hydraulics application.</li><li>• Control pneumatics and hydraulics application with timer, counter, system alternate and system diversion.</li></ul> |  |                                     |
| <b>Target Audience:</b> <ul style="list-style-type: none"><li>• Electricians, Research assistant, Research officer, Researcher, Academicians</li><li>• Technicians &amp; Engineers</li><li>• Instructors</li></ul>   |  |                                     |
| <b>Course duration:</b>  | <b>Min:3 days, Max:5 days</b>  |                                     |
| <b>Course Contents</b> :   |  |                                     |
| <b>No</b>  | <b>TOPICS</b>  |                                     |
| 1  | Introduction to Electronics circuit Karnaugh Map                                 |                                     |
| 2  | Introduction to basic pneumatics and hydraulics theory.                          |                                     |
| 3  | Construct circuit for pneumatics and hydraulics application with digital circuit |                                     |
| 4  | Commissioning, testing and fault finding circuit using oscilloscope.             |                                     |
| <b>COURSE STRUCTURE:</b>   |  |                                     |
| Practical :  | 65 %   |                                     |
| Theory :   | 35 %   |                                     |

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 & 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)