**APPROVED**

# EN7035: PLC Programming & Applications

## Course Details

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| **Course Code:** | EN7035 |
| **Course Title:** | PLC Programming & Applications  APPROVED |
| **Short Title:** | PLC Programming |
| **Course Level::** | Level 7 |
| **Valid From::** | 2021/2022 Sem 1 |

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| **Credits::** | 30 |

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| **Owner:** | Engineering Technology |

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| **Assessment Method:** | Achievement |

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| **Course Aim** | To introduce advanced level theories, principles and concepts in the area of PLC-controlled automated control systems and to solve industrial process control problems using Programmable Logic Controllers (PLCs) and Human Machine Interfaces (HMI). |

| CILO | |
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| *On Completion of this course, the learner will be able to* | |
| **#** | **Learning Outcome Description** |
| 1 | Apply advanced level programming skills in the design, implementation and testing of PLC programming code to solve defined or undefined industrial automation control problems. |
| 2 | Apply advanced practical skills and theoretical knowledge for the integration of a range of field devices to a PLC to solve advanced industrial process control problems. |
| 3 | Apply specialist level programming and testing skills in the implementation of a range of HMI applications to a process control problem using relevant industry practice and quality standards securing continuous improvement. |

**Requisites**

- Pre Requisite: EN6020 and EN7230

| Examinations | |
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| **Assessment Type** | |
| Examination (Unseen) | |

| Other Controlled Assessments | |
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| **Assessment Type** | |
| Lab Assignment | |

| Uncontrolled Assessments | |
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| **Assessment Type** | |
| Practical Project | |

## Affiliated Entities

| Entity Code | Entity Title | Entity Version | Entity Type |
|---|---|---|---|
| ENT7031 | Associate Degree in Engineering Technology (Electronics) | 2 | Programme |
| ENT7040 | Associate Degree in Engineering Technology (Electrical) | 1 | Programme |
| ENT7090 | AEngTech Industrial Instrumentation and Automatic Control | 1 | Programme |
| ENT8031 | Bachelor of Engineering Technology (Electronics) | 4 | Programme |
| ENT8040 | Bachelor of Engineering Technology (Electrical) | 2 | Programme |
| ENT8090 | Bachelor of Engineering Technology (Industrial Instrumentation and Automatic Control) | 1 | Programme |