

# Professional Diploma in Equipment Systems Engineering

## Programme Overview

As technology advances rapidly, the need for skilled professionals who can design and maintain complex equipment systems has never been greater.

This level 9 professional diploma covers all aspects of equipment systems engineering, from design and development to installation and maintenance. You will learn from experienced industry professionals who have worked with some of the world's leading companies, gaining valuable insights into the latest technologies and best practices.

### For professionals who wish to:

- Procure, design, manufacture, commission, support or optimise Industry 4.0/5.0 equipment for the high-tech manufacturing sector in Ireland.
- Collaborate with others to broaden their overall access to emerging research, technologies and best working practice to meet the challenges of Industry 4.0/5.0.
- Improve their problem-solving techniques in the high-tech manufacturing equipment domain.
- Be recognised as technical leaders in a topic relevant to Equipment Systems Engineering.
- Possess the skills to implement Industry 4.0/5.0 technologies in manufacturing.

1 year part-time  
(Blended)



## Programme Content

Semester 1	Semester 2
Disruptive Innovation Sprints	Technology Trajectory Strategy
Automated System Design	System Integration

This part-time programme will run over two academic semesters with weekly online lectures and 1 day per semester on campus for participation in a Community of Practice.

By participating on the Equipment Systems Engineering (ESE) professional diploma you will be provided with:

- An overview of relevant commercially available cyber technologies.
- Access to a learning platform with key learning assets from leading cyber technology providers.
- The tools and techniques to manage your equipment procurement processes which ensure that you are implementing appropriate cyber technologies in accordance with current best practice.
- The latest Cyber-Physical manufacturing equipment solutions, which are currently in development, to solve real-world challenges.

## Entry Requirements

- Applicants should hold a NFQ level 8 at minimum level 2.2 in a relevant area.
- Applicants with a lower qualification may also be considered provided they can prove to have considerable industrial experience as well as evidence of the ability to study at Masters Level.

## Funding

This course qualifies for 80% funding under the HCI Fees Subsidy. For further details go to [HEA Eligibility Criteria](#).

## How to Apply

For details on how to apply and documentation required, visit: [www.ul.ie/gps/courses/equipment-systems-engineering-professional-diploma](http://www.ul.ie/gps/courses/equipment-systems-engineering-professional-diploma)

## Programme Contact

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