

# Testimonials

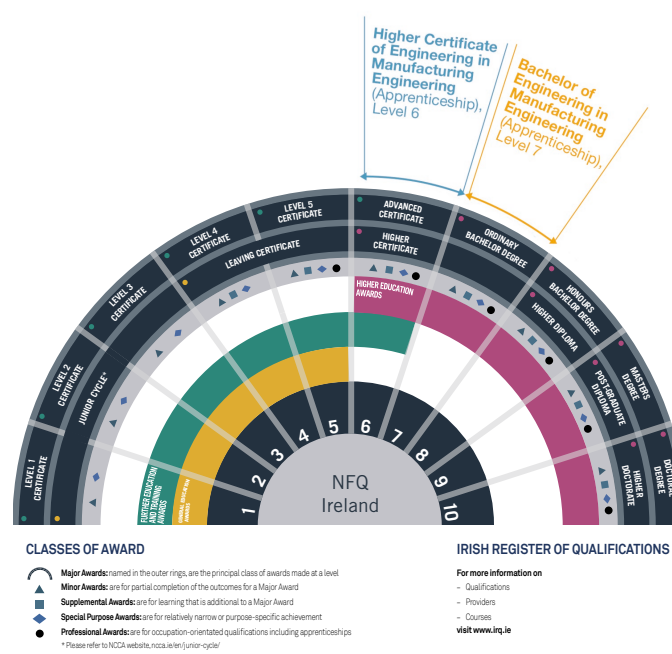


“The apprenticeship has been a great experience for me. It’s a perfect way of learning new skills suited to a wide range of roles within such a strong industry. We also have the added bonus of earning while we learn. The practical experience of on the job learning means we can see different sides of the business and it gives us a chance to see where our strengths lie.”

Aislinn Smith, Apprentice, Johnson & Johnson Vision Care

“As a time served apprentice who came up through the ranks I’m a complete advocate of the apprenticeship model. The Manufacturing apprenticeship has afforded Cambus Medical the opportunity to develop existing staff to Engineering level. It is an ideal solution to address our skills agenda as it allows our employees to earn as they learn by formally combining workplace learning with learning in an IOT. I would strongly recommend this model to any companies considering how they will attract and retain technician and engineering talent for the future.”

Barry Comerford, Co-Founder & CEO, Cambus Medical



### CLASSES OF AWARD

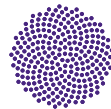
- Major Awards:** named in the outer rings, are the principal class of awards made at a level
  - Minor Awards:** are for partial completion of the outcomes for a Major Award
  - Supplemental Awards:** are for learning that is additional to a Major Award
  - Special Purpose Awards:** are for relatively narrow or purpose-specific achievement
  - Professional Awards:** are for occupation-orientated qualifications including apprenticeships
- \* Please refer to NCCA website: [ncca.ie/en/junior-cycle/](http://ncca.ie/en/junior-cycle/)

### IRISH REGISTER OF QUALIFICATIONS

- For more information on
- Qualifications
  - Providers
  - Courses
- visit [www.irq.ie](http://www.irq.ie)

Supported by the Erasmus+ Programme of the European Union

© QQI 2021



Manufacturing Engineering Apprenticeship  
Ibec

84/86 Lower Baggot Street Dublin 2  
[www.ibec.ie](http://www.ibec.ie)

T: 087 715 7967

E: [info@manufacturingapprenticeships.ie](mailto:info@manufacturingapprenticeships.ie)

W: [www.manufacturingapprenticeships.ie](http://www.manufacturingapprenticeships.ie)

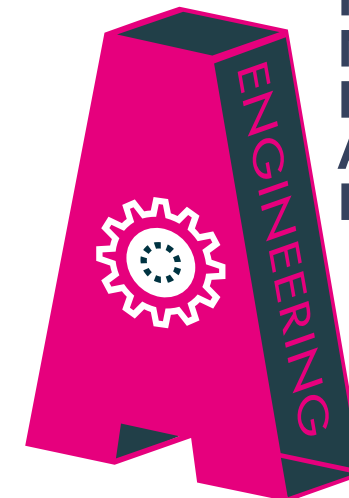


**GENERATION APPRENTICESHIP**

Engineering | [www.apprenticeship.ie](http://www.apprenticeship.ie)



Manufacturing Engineering Apprenticeship  
Ibec



**New industry-led Manufacturing Engineering Apprenticeship Programmes**

Bachelor of Engineering in Manufacturing Engineering (Apprenticeship), Level 7

Higher Certificate of Engineering in Manufacturing Engineering (Apprenticeship), Level 6



[www.apprenticeship.ie](http://www.apprenticeship.ie)

## Introduction to Apprenticeships

An apprenticeship is a programme of structured education and training, which formally combines work place learning with learning in an education or training centre. These new apprenticeships were designed with close alignment to the current needs of the Irish manufacturing industry.

Two new apprenticeship programmes were subsequently developed:

- (a) Manufacturing Engineer Apprenticeship
- (b) Manufacturing Technician Apprenticeship

Apprenticeships are paid employment allowing the apprentice to 'earn while you learn'.

## Benefits for industry and the apprentice



- Demand Driven
- Tailored to industry needs
- Addresses and tackles skill shortages
- Job specific qualification
- Improved staff retention
- Future-proof your organisation
- Government subsidised training



- Gaining a national qualification while working
- Earning while learning
- Good career progression

## Who should get involved?

- School leavers (leaving certificate).
- Existing Production Operators and Technicians who want to train or retrain in the engineering and manufacturing sectors and progress along NFQ to levels 6 and 7.

## Timelines

- **Academic block release:** 15 weeks per year.
- **Summer intake:** Apprenticeship contracts start in late July for September academic block
- **Autumn intake:** Apprenticeship contracts start in Mid-November for January academic block

## Manufacturing Sector Ireland

- Manufacturing in Ireland is one of the high performing engines of the Irish economy with clusters of world class manufacturing operations in sectors such as medical technology, biopharmaceuticals, electronics, and food production.
- Ireland's level of employment in high-technology manufacturing, as a share of total employment, is now the highest in the EU, with 29% of manufacturing jobs in high technology sectors. This is four times the EU average. Overall, there are 260,000 people employed in the Irish manufacturing sector, accounting for over 12% of total employment in the economy.
- Our ambition is for Ireland to have an international reputation for manufacturing across all key sectors. We believe this can be achieved sharing best practice, developing deeper cross sectoral collaboration crossing policies that strengthen our workforce.

## BACHELOR OF ENGINEERING IN MANUFACTURING ENGINEERING (APPRENTICESHIP), LEVEL 7

This Apprenticeship is a 3 year programme, with an approved employer, with 70% of the time spent on the job and the remaining 30% spent in one of the following universities: Atlantic Technological University Galway • Technological University of the Shannon: Midwest (Limerick) • Munster Technological University Cork • Atlantic Technological University Sligo.

## Job Profile

The Manufacturing Engineer will be required to facilitate efficient operations within the production area, to optimise existing processes, implement new processes and to ensure that production goals are met.

## Entry Requirements

Pass (Grade 06 or better) in five leaving certificate subjects, 2 of which must be maths and a language (English or Irish) Leaving cert APPLIED is not suitable.; In the case of a mature student (over 23 years, without a leaving cert) an industry interview is required.

## Timelines and Course modules

### Summer intake

	INDUSTRY INDUCTION	UNIVERSITY	INDUSTRY
Year 1	Mid July-Sept	Sept-Dec	Jan-Sept
Year 2		Sept-Dec	Jan-Sept
Year 3		Sept-Dec	Jan-Mid July

### Autumn intake

	INDUSTRY INDUCTION	UNIVERSITY	INDUSTRY
Year 1	Mid-Nov-Jan	Jan-May	May-Dec
Year 2		Jan-May	May-Dec
Year 3		Jan-May	May-Mid Nov

Year 1	Year 2	Year 3
Manufacturing Engineering 1	Manufacturing Engineering 2	Advanced Manufacturing Processes
Quality 1	Quality 2	Six Sigma Quality
Computer Aided Design	Manufacturing Design of Fixtures	Manufacturing Process Planning
Academic and Professional Skills	Lean Manufacturing	Operations Management
Electrical Sciences	Manufacturing Automation	Robotics and Control
Engineering Science	Metrology	Polymer Processing Technology
Engineering Mathematics 1	Engineering Mathematics 2	Engineering Software Systems
Industry Module 1	Maintenance and Safety	Project Management
	Industry Module 2	Industry Module 3

**Note:** Depending on the demand for the level 7 Manufacturing Engineering Apprenticeship, it may be necessary to complete the year 3 academic block in a Technological University outside your region.

## HIGHER CERTIFICATE OF ENGINEERING IN MANUFACTURING ENGINEERING (APPRENTICESHIP), LEVEL 6

This Apprenticeship is a 2 year programme, with an approved employer, with 70% of the time spent on the job and the remaining 30% spent in one of the following universities: Atlantic Technological University Galway • Technological University of the Shannon: Midwest (Limerick) • Munster Technological University Cork • Atlantic Technological University Sligo.

## Job Profile

The Manufacturing Technician will be required to provide a technical support function for manufacturing operations, including troubleshooting equipment and process issues, validation and qualification activities of the manufacturing site.

## Entry Requirements

Pass (Grade 06 or better) in five leaving certificate subjects, 2 of which must be maths and a language (English or Irish) Leaving cert APPLIED is not suitable; In the case of a mature student (over 23 years, without a leaving cert) an industry interview is required.

## Timelines and Course modules

### Summer intake

	INDUSTRY INDUCTION	UNIVERSITY	INDUSTRY
Year 1	Mid July-Sept	Sept-Dec	Jan-Sept
Year 2		Sept-Dec	Jan-Mid July

### Autumn intake

	INDUSTRY INDUCTION	UNIVERSITY	INDUSTRY
Year 1	Mid-Nov-Jan	Jan-May	May-Dec
Year 2		Jan-May	May-Mid Nov

Year 1	Year 2
Manufacturing Engineering 1	Manufacturing Engineering 2
Quality 1	Quality 2
Computer Aided Design	Manufacturing Design of Fixtures
Academic and Professional Skills	Lean Manufacturing
Electrical Sciences	Manufacturing Automation
Engineering Science	Metrology
Engineering Mathematics 1	Engineering Mathematics 2
Industry Module 1	Maintenance and Safety
	Industry Module 2