Féidearthachtaí as Cuimse
Infinite Possibilities

Dublin School of Architecture

(School of Architecture, Building & Environment)

Consortium Apprenticeship for Architectural Technology?

Faculty of Engineering & Built Environment
TU Dublin, Bolton Street Campus

OLLSCOIL TEICNEOLAÍOCHTA
BHAILE ÁTHA CLIATH

TU DUBLIN

TECHNOLOGICAL
UNIVERSITY DUBLIN

TU Dublin | Architecture

TU Dublin   Organisational Design
New Faculty   Engineering and the Built Environment
New School   Architecture | Environment | Planning
(Name pending)

Disciplines

- Architectural Technology
- Architecture
- Building Performance
- Construction (including Solas craft apprenticeships)
- Environmental Management
- Spatial Planning

Existing craft apprenticeships (Construction)

- Bricklaying and Stonelaying
- Painting and Decorating
- Wood Manufacturing and Finishing

TU Dublin Linenhall

TU Dublin Bolton Street

Strategic Priority 1a

1a/iii/d

- Enhancement and roll-out of **practice-based skills provision**, including progression opportunities with FE in the region;
- Deep engagement with employers for the further development of **apprenticeship** (craft and new), earn & learn opportunities and student & graduate placements;
- Promotion and recognition of entrepreneurial endeavours; and additional, credible means of recognition of **practice-based learning and skills**;

Discover Infinite Possibilities at TU Dublin

Architectural Technology | Mission

Mission 2005

''Provide a suite of undergraduate, postgraduate and CPD courses, which meet the life long educational needs of the professional Architectural Technologist.''

Validation 2009

- DT175 BSc (Hons) Architectural Technology   4 year ab-initio
- DT175A BSc (Hons) Architectural Technology   1 year progression (full time)
- DT175B BSc (Hons) Architectural Technology   1 year progression (RPL)
- *DT175C PG Cert Applied Architectural Technology*

Springboard 2011-2018

- MSc Energy Retrofit Technology
- MSc applied Building Information Modelling & Management
- MSc Building Performance (Energy Efficiency in Design)

Graduation 2022

- NFQ Level 7: Bachelor of Technology in Architectural Technology
- NFQ Level 8: BSc (Hons) Architectural Technology
- NFQ Level 9: MSc in Applied Building Information Modelling & Management
- NFQ Level 9: MSc in Building Performance (Energy Efficiency in Design)
- NFQ Level 10: Doctor of Philosophy in BIM Anthropology

Graduation May 2022
Dr Malachy Mathews with MSc aBIMM AT graduates

Demand? | Need?

TECHNOLOGICAL UNIVERSITY DUBLIN
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Next steps?

- Part time / work based learning / earn as you learn – **Apprenticeship**
- Recognition of Prior Learning - **RPL** *(RIAI Arch Tech Entry Examination?)*

TU831 BSc (Hons) Architectural Technology

- Significant demand
- Strong new narrative
- CAO Points 400+
- Continuing high student attrition

Why?

Leaving Certificate	CAO-2002 V CAO-2022
	Transition from second level
Societal changes	'Inculcating' work ethic
New content	BIM
	Energy performance metrics
Part time work	20 hours+
	Unrelated to study
	60 hour week?

Traineeships | Earn as you learn

Vocational Schools

Group Cert	Apprenticeships
Inter Cert	Apprenticeships
Leaving Cert	Apprenticeships
	Traineeships
	Technician courses

Traineeship

JB Barry & Partners, Civil Engineers
Technician Certificate, Bolton Street
4 evenings per week

Technician courses

£30
Architectural Technician
Bolton Street
Also Waterford, Cork, Limerick (Farmers)

1993

Free fees

1999

Bologna Accord – Access Transfer Progression

Work based learning | DSA models

Construction
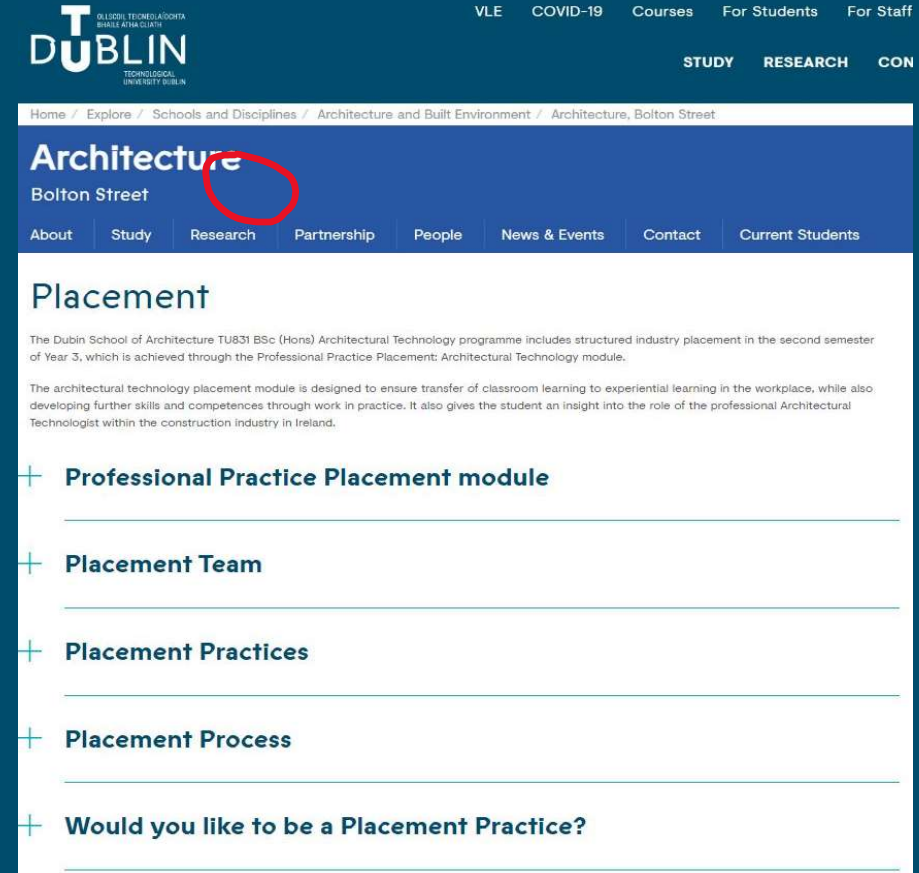
- Craft   Bricklaying and Stonelaying

                  Painting and Decorating

                  Wood Manufacturing and Finishing

Architecture

- B Arch   ARCH9008 Advanced Electives

- M Arch   ARCH9000 Collaborative Design Practice Studio

- 'Year out'   Post Year 3

                  Post Year 4

Architectural Technology

- Placement   TECH3200 Professional Practice Placement

- Summers   BIM skills

# Architectural Technology | Apprenticeship?

Characteristics

- Project based / applied learning

- Digitalised

- Modules   Building Technology 5 ECTS

    Building Performance 5 ECTS

    Building Information Modelling 5 ECTS

    Professional Studies 5 ECTS

- Cloud based – A360 / O365 / Virtual Learning Environment

- Placement mentors

- QQI context

- CPD

- Adaptable

Apprenticeship | Key Features

**Apprenticeships in Ireland have the following key features:**

- Industry-led – consortia of industry and education partners

- Lead to an award at Levels 5 to 10 on the National Framework of Qualifications (NFQ)

- Between 2-4 years in duration n Minimum 50% on-the-job learning

- Flexible delivery – online, blended, off-the-job learning in increments/blocks

- The State funds off-the-job learning

- Apprentices are employed under a formal contract of apprenticeship

- The employer pays the apprentice for the duration of the apprenticeship

Developing a National Apprenticeship - Handbook
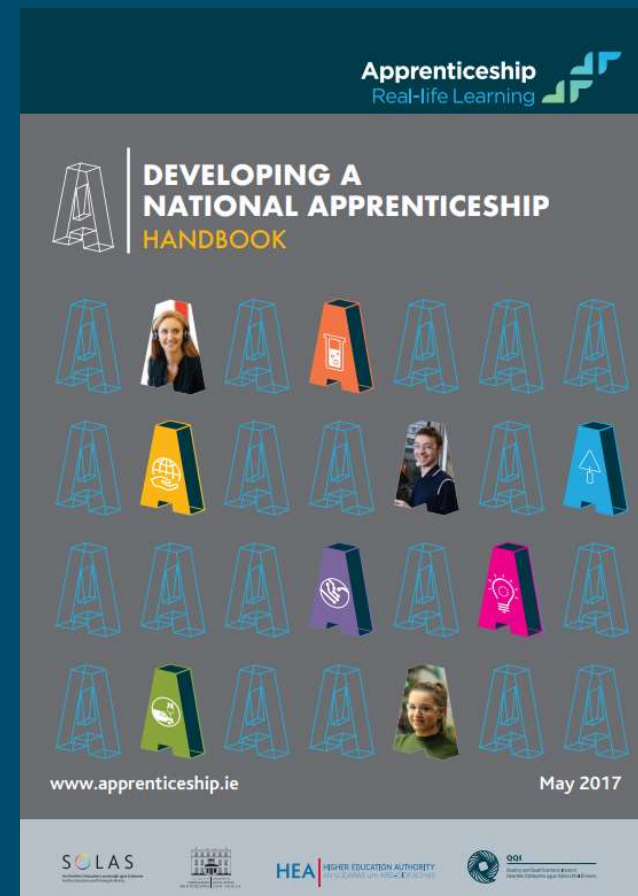
# Apprenticeship | Partners & Stakeholders

Partners & Stakeholders

- Department of Education and Skills

- Apprenticeship Council

- Apprentice

- Industry

- Consortium

- Providers

- SOLAS

- HEA - Higher Education Authority

- QQI - Quality and Qualifications Ireland

Developing a National Apprenticeship - Handbook
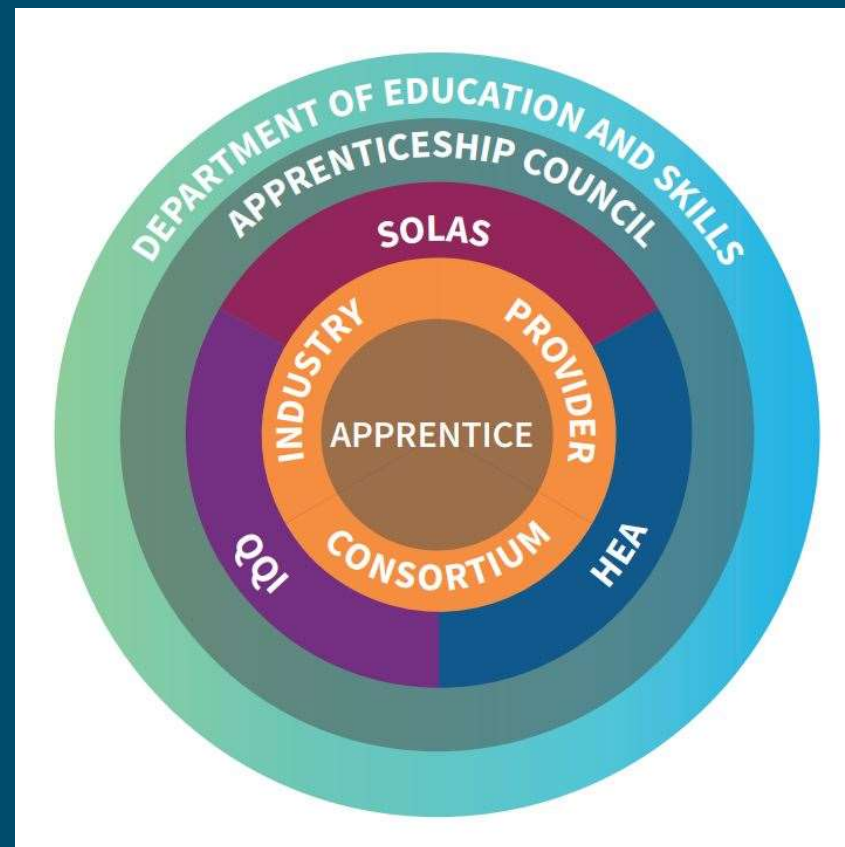
Apprenticeship | Partners & Stakeholders

10 Steps

1. Proposal-Research and skills need

2. Assessment and approval for development

3. Project plan approved and development funding allocated

4. Programme development

5. Occupational profile approved

6. QA approved and programme validated

7. Industrial Training Order created

8. Implementation plan and budget agreed

9. Approval of employers and registration of apprentices

10. Apprenticeship underway

Developing a National Apprenticeship - Handbook
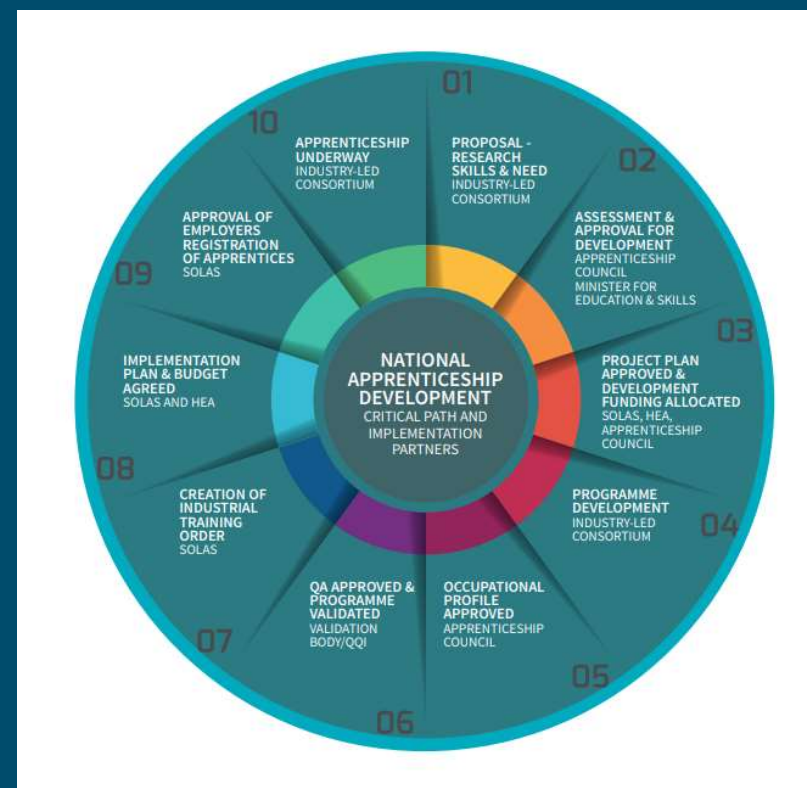
Architectural Technology | Timeline?

Date	Event
June 2022	• Symposium
Sept 2022	• Form consortium
December 2022	• Step 1 proposal
December 2023	• QA Validation
January 2024	• Marketing & Recruitment
September 2024	• Cohort #1 commence
September 2025	• Cohort #2 commence
September 2026	• Cohort #3 commence
September 2027	• Cohort #4 commence / Cohort #1 graduation

Thank You
Q & A