



QQI is currently developing its corporate brands and policies for awards and standards. Until this process is completed an interim format will be used for new QQI certificate/component specifications for the Common Awards System.

### **Certificate Details**

**Title: Advanced Certificate Craft – Plumbing**

**Award Class: Major**

**Level: 6**

**Credit Value: 240 FET Credits**

**Code: 6M18176**

**Purpose:** The purpose of this award is to enable the learner to attain the standard required to achieve the Advanced Certificate craft through the knowledge, skill and competence essential in all plumbing system design, installation, diagnostics, maintenance, commissioning and repair in accordance with national standards, current health & safety regulations, manufacturers’ specifications, and national and EU legislation.

The plumbing craft addresses:

- Central Heating
- Domestic Biomass
- Domestic Heat Pumps
- Domestic Solar Thermal
- Gas Services
- Oil Services
- Piping Systems
- Plant and Process Systems
- Thermal Processes Plumbing
- Water Services Component

#### **The learner should be able to:**

#### **NFQ level Indicators**

<b>1</b>	Demonstrate an in-depth knowledge of the design, installation, commissioning and maintenance procedures used in the trade of plumbing.	<b>Knowledge</b>	<b>Breadth</b> Specialised knowledge of a broad area
<b>2</b>	Evaluate key theoretical concepts used in the planning, design, installation and diagnostics of water and heating systems pertinent to domestic and industrial environments		<b>Kind</b> Some theoretical concepts and abstract thinking, with significant depth in some areas

3	Demonstrate comprehensive range of specialised plumbing skills using all commonly used plumbing hand and power tools in compliance with all relevant health and safety legislation and best practice	<b>Know-how and skill</b>	<b>Range</b> Demonstrate comprehensive range of specialised skills and tools
4	Exercise appropriate judgement in planning, design, diagnostics and delivering all services, installations and maintenance processes relating to the plumbing trade		<b>Selectivity</b> Formulate responses to well-defined abstract problems
5	Transfer and apply theoretical understanding and technical know-how to inspect, diagnose faults, maintain and repair piping systems in a wide variety of domestic and industrial contexts.	<b>Competence - Context</b>	Utilise diagnostic and creative skills in a range of functions in a wide variety of contexts
6	Exercise substantial independence in the workplace, taking responsibility for plumbing duties performed by others and interacting with a variety of individuals and groups to include customers, colleagues and suppliers.	<b>Competence- Role</b>	Exercise substantial personal autonomy and often take responsibility for the work of others and/or for the allocation of resources; form, and function within, multiple, complex and heterogeneous groups
7	Take initiative to identify and address self-development and training needs in both an employment and structured training environment.	<b>Competence- Learning to learn</b>	Learn to take responsibility for own learning within a managed environment
8	Determine the function and role of the plumber in society to include an awareness of energy conservation and other relevant ecological concerns.	<b>Competence- Insight</b>	Express an internalised, personal world view, reflecting engagement with others

## Certificate Requirements

To be awarded this certificate the learner must have achieved the expected Learning Outcomes set out above and the following components. The total credit requirement for this Advanced Certificate is **240 FET Credits** including the credit for the following components

### All of the following component(s)

	Code	Title	Level	Credit Value
	6N1950	Communications	6	15
	6N1948	Team Leadership	6	15

## Assessment Technique(s) including weighting(s)

The Advanced Craft Certificate grade is based on a weighted average of all Phase result grades. All components are integrated and assessed throughout the programme alternating between On-the-job phases and Off the job phases. To attain the required standard, a minimum of a pass grade must be achieved in all assessments prescribed in the apprenticeship programme specification. The apprenticeship programme assessment specification maps the component outcomes across assessment instruments in all phases of the apprenticeship

Pass - Is awarded when the cumulative assessment results achieved in all phases of the Apprenticeship programme aggregate between 50% and 64% of the total marks available.

Merit - Is awarded when the cumulative assessment results achieved in all phases of the apprenticeship programme aggregate between 65% and 79% of the total marks available

Distinction – Is awarded when the cumulative assessment results achieved in all phases of the apprenticeship programme is 80% or above of the total marks available

## Specific Validation Requirements

All tools and equipment comply with safety requirements. The assessment area must be safe following an appropriate risk assessment in accordance with health and safety legislation

SOLAS, Ireland's Further Education and Training Authority has statutory responsibility for the organisation and control of designated apprenticeships under the Industrial Training Act 1967 and the Labour Services Act 1987.

These awards standards must be used together with QQI's NFQ Level 6 Professional Award-type Descriptors i.e. both standards, the particular and the general, must be achieved for the craft award.

## Access Requirements

To access the programme leading to this Major award the learner must comply with all current apprenticeship entry requirements.

### **Supporting Documentation**

Current HSA statutory regulations and codes of practice  
Manufacture's equipment/machine operating procedures  
Manufacture's technical/hazardous material Information  
Current Apprenticeship Rules