

Apprenticeship Training Programme

Phase 1: *With Employer*

Induction Training
Introduction to Health & Safety Training
Introduction to Tools & Equipment
Introduction to Basic Skills

Phase 2: *Delivered in Training Centre (20 weeks)*

Course Content:

Induction
Basic Fabrication
Thermal Processes
Plate Fabrication
Structural Steel Fabrication
Pipe Fabrication
Fabrication Drawing - continuous throughout the course
Related Theory

Phase 3: *With Employer*

Work Based Assessments

Phase 4: *Delivered in Educational Colleges (11 weeks)*

Course Content:

Thermal Processes
Plate Fabrication
Structural Fabrication
Pipe Fabrication
Fabrication Drawing
Related Theory

Phase 5: *With Employer*

Work Based Assessments

Phase 6: *Delivered in Educational Colleges (11 weeks)*

Course Content:

Thermal Processes
Plate & Pipe Fabrication
Structural Fabrication
Fabrication Drawing
Related Theory

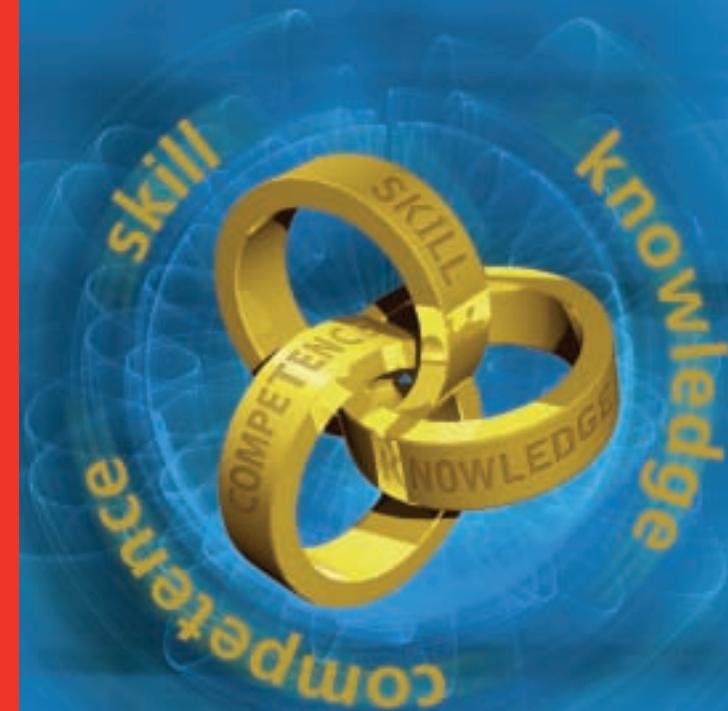
Phase 7: *With Employer*

Work Based Assessments

The overall duration of this apprenticeship is a minimum of 4 years provided all phases are successfully completed. On successful completion of the programme the learner is awarded a Level 6 Advanced Certificate Craft – Metal Fabrication.

For further information please contact your local Education & Training Board Training Centre or log onto www.SOLAS.ie

The Craft of Metal Fabrication



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 **Apprenticeship**

KNOWLEDGE. SKILL. COMPETENCE

Overview

The Metal Fabricator's role includes the reading of drawings, working with materials such as low carbon steel, stainless steel, alloy steel and aluminium. The fabricator is involved in such industries as constructional steel, pressure vessel, tank and boiler manufacture, ship building and ship repair also general engineering. The skills required are wide and varied. They include skills such as measuring, marking out, cutting and welding materials using different processes and assembly techniques.

Work activities

Metal fabricators cut and shape steel with the aid of oxy-acetylene equipment and powerful guillotines. They bend and fold steel using powerful brake presses to produce a wide range of steel products. Grinding, shot blasting and galvanising are techniques used in the finishing of heavy metal products.

Personal qualities and Skills

Good eyesight and hearing are important. You need physical fitness to lift and carry equipment.

You must be able to work without close supervision.

You need to be able to follow technical instructions carefully and follow safety procedures at all times.

Aspects of Work

- Learning new practical skills
- Operating machines
- Being well-organised and careful with practical tasks
- Using tools or machinery to shape metal
- Being physically active
- Lifting or carrying heavy items
- Learning and developing new craft-related skills, knowledge and competence
- Work requiring accuracy and attention to detail
- Working in a workshop or factory
- Practical skills and theoretical knowledge
- Taking responsibility for own learning, including the allocation of study time

Opportunities

Opportunities arise from time-to-time for promotion to supervisor level. Many persons use an apprenticeship as a first step in proceeding to such occupations as instructors, teachers, training advisers, managers and owners of businesses.

Where apprentices and crafts persons have the necessary ability, initiative and basic qualifications, opportunities are available for advancement. These include advanced technological and management courses which are available in Institutes of Technology, schools of management, professional institutes, etc.

Educational Requirements

The minimum age at which the employment of an apprentice may commence is 16 years of age.

The minimum educational requirements are:

1. Grade D in five subjects in the Department of Education & Science Junior Certificate Examination or an approved equivalent,
or
2. The successful completion of an approved Pre-Apprenticeship course
or
3. Three years' work experience gained over sixteen years of age in a relevant designated industrial activity as SOLAS shall deem acceptable

You must obtain a job as an apprentice in your chosen occupation. Your employer must be approved to train apprentices and must register you as an apprentice within 2 weeks of recruitment.

In certain crafts, apprenticeship applicants are required to pass a colour vision test approved by SOLAS.