

AREAS FOR FURTHER DEVELOPMENT

T LEVEL: ENGINEERING, MANUFACTURING, PROCESSING AND CONTROL

T Level learners will have covered a broad spectrum of knowledge and understanding of the concepts, theories and principles relevant to the T level in the core content. They will then specialise and cover the knowledge and skills required in that occupational specialism, putting this into practise during the industry placement. There may be some areas a learner will need to further develop in a workplace environment following a T Level to reach full competence, such as behaviours. Following engagement with employers, industry experts and providers, we have captured below what these areas for development may be following a T Level. This will depend on the learner and an initial assessment. The RPL guidance gives further details.

Occupational Specialism: Fabrications and Welding Technologies

Standard: Metal Fabricator

Aspects for further development

Knowledge:

- K4: The typical problems that may arise within their normal work activities/environment
- K5: Approved diagnostic methods and techniques used to help solve engineering problems
- K12: Allowances for cutting, notching, bending, rolling and forming materials
- K13: Describe Pattern development processes, tooling and equipment
- K14: Describe Cutting and forming techniques, tooling and equipment
- K15: Describe Assembly and finishing processes, tooling and equipment
- K16: Inspection techniques that can be applied to check shape and dimensional accuracy
- K17: Factors influencing selection of forming process
- K18: Principles, procedures and testing of different joining techniques (Mechanised or Manual)
- K20: Consumables used in Manual or Mechanised joining
- K22: Metallurgy associated with joining
- K23: Different types of Welds and joints

Skills:

- S7: Deal promptly and effectively with problems within the limits of their responsibility using approved diagnostic methods and techniques and report those which cannot be resolved to the appropriate personnel
- S12: Cut and form Metal for the production of fabricated products

Additional Learning

Further Practical Application of knowledge and skills to reach full occupational competence. They will need further support to apply their knowledge and skills, particularly in non-routine situations to develop their:

- Quality of skill
- Pace
- Adaptability
- Independence and focus
- Appropriate workplace behaviours

Behaviours.

Mandatory qualifications:

Diploma in Advanced Manufacturing Engineering (Development Knowledge) Level: 3 or Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge) Level: 3.