

SIAS Level 2 Engineering and Manufacturing Foundation Apprenticeship (AP V1.0)

(FA0006)

Specification



Welcome to SIAS

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As an award-winning AO for the technical science, manufacturing, engineering and low carbon sectors, we are disrupting through innovative and collaborative approaches.

Our mission is to deliver transformational experiences and solutions that support the skills agenda.

Feedback

Customer experience and feedback is very important to us. We're always open to suggestions when it comes to enhancing and improving our services. If you have any comments or feedback on our services or products, please contact our team at info@siasuk.com or call us on 01925 515211.

Version History

Version	Updates
1.0	First published

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Objective

The aim of this Apprenticeship Assessment Qualification is to ensure that the apprentice is occupationally competent against the knowledge and skills outlined in the assessment plan for this foundation apprenticeship.

Overview

Foundation apprenticeships are employed positions and are for younger people who will benefit from a wide range of experiences. Each foundation occupation provides a mix of employability skills and behaviours, technical knowledge and skills, and associated English and maths. It combines valuable hands-on practice in the workplace with off-the-job learning. The apprentice's experiences will not only help them to grow their skills but will also help to inform their next career steps. Completion of this foundation apprenticeship will certify competency in all of the technical knowledge and skills, together with all the employability skills and behaviours described. The typical progression routes will likely include employment or progression onto another skills product such as a level 2 or level 3 apprenticeship.

Foundation apprenticeships benefit employers as they get to see the apprentice in work-based settings while the apprentice receives extra support. Employers also benefit from accessing a broader talent pool of young learners than they might otherwise do.

Foundation apprentices will normally spend 8 months on programme. This Foundation Apprenticeship requires a minimum 187 hours off-the-job learning.

Entry Requirements

The apprentice must normally be age 16 to 21 at the start of their apprenticeship. Exceptions to this are set out in the Department for Education Apprenticeship funding rules.

There are no other entry requirements.

Competence Evaluation

During the apprenticeship, regular evaluation of the competence of the apprentice against the apprenticeship requirements will help to ensure that they achieve full occupational competence by the end of their training, and that they are ready for their assessments at the appropriate points.

Employability Skills and Behaviours Evaluation

Employability Skills and Behaviour (EB) statements are not formally assessed. However, SIAS will confirm with employers that they have been suitably demonstrated over the course of the apprenticeship before awarding the Foundation Apprenticeship. (EB6 does not need to be confirmed by the employer but should form a key element of the apprentice's off-the-job training package.)

Employability skills and behaviours

EB1: Communicate and share information using verbal, non-verbal, written and digital methods.

EB2: Act in a professional manner including good time keeping and conduct.
EB3: Apply new learning and feedback to everyday practice.
EB4: Complete own work tasks and ask for help when needed.
EB5: Work with colleagues to contribute to team outcomes.
EB6: Seek ways to manage own financial, health and wellbeing needs using available resources.
EB7: Overcome challenges and adapt to changes at work.
EB8: Work in line with health, safety and environmental requirements.

Assessment Methods

SIAS will set the assessment methods, and these will ensure that the following Assessment Outcomes (AOs) are met. The KS Mapping column indicates the technical knowledge and skills aligned to each AO.

Assessment Outcome	KS Mapping
AO1 Health, safety, regulatory and environmental responsibilities - Demonstrates understanding of and compliance with health, safety, and regulatory requirements, including the understanding of appropriate sustainability practices, and waste disposal.	K1, K2, K3, K5, S1, S2, S3
AO2 Preparation, interpretation and quality - Demonstrates knowledge and skills in operational responsibilities, work area preparation, and use of technical documentation to support effective preparation and quality outcomes.	K4, K6, K7, K13, S4, S5, S10
AO3 Components, tools, and techniques - Demonstrates knowledge and skills in the use of common components, and relevant tools and techniques for hand and machine engineering and manufacturing tasks.	K8, K9, K10, K11, K12, S6, S7, S8, S9

Assessment methods will include:

- A knowledge test. The knowledge test will be online and on demand.
- A practical test. The synoptic practical assessment will give the foundation apprentice the opportunity to demonstrate the practical application of the knowledge and skills they have acquired over the course of their training.

All assessments will be delivered to ensure that foundation apprentices demonstrate the requirements, as set out in the occupational standard:

- Reliably
- Effectively
- To an appropriate degree for the level of the standard
- In full.

Grading

This apprenticeship assessment is graded as a pass/fail.

To achieve a Pass, apprentices will need to pass all assessments.

Re-takes and re-sits

Learners who fail to achieve a pass in any assessment will be permitted to take a resit or resubmit evidence.

Resources

SIAS will provide the following additional resources for this qualification:

- Centre / Employer Guide
- Apprentice Guide
- Sample assessment materials including mock knowledge test
- Externally set assessments

Mapping of Knowledge and Skills

Technical Knowledge	Assessment Outcome
K1: Employee responsibilities under relevant health, safety and welfare regulations.	AO1
K2: Sustainability principles and practices relevant to the role, including waste disposal and the impact of engineering and manufacturing on the environment.	AO1
K3: Types, use and storage of personal protective equipment (PPE).	AO1
K4: The engineering and manufacturing function and role and responsibilities of the operative.	AO2
K5: Workplace safety and operating procedures. What they are and why they are important.	AO1
K6: Work area preparation and maintenance techniques.	AO2
K7: Use and characteristics of job specifications, engineering and manufacturing drawings, and technical information.	AO2
K8: Use, basic maintenance and storage techniques of tools, equipment and machinery associated with engineering and manufacturing tasks.	AO3
K9: Types and use of common components, connections and fastenings associated with engineering and manufacturing tasks.	AO3
K10: Techniques to carry out basic hand-based engineering and manufacturing tasks, including measuring and marking out, bench fitting and hand tool tasks.	AO3
K11: Techniques to carry out basic machine-based engineering and manufacturing tasks: drilling, milling, turning, grinding, basic Computer Numerical Control (CNC) operations, and additive manufacturing.	AO3

K12: Methods of assisting in tasks, for example preparatory work, pre-assembly, monitoring equipment, lifting, holding and positioning materials and components.	A03
K13: Techniques to carry out simple quality checks: visual inspections and basic operational testing.	A02
Technical Skills	Assessment Outcome
S1: Comply with employee responsibilities under health, safety and welfare regulations.	A01
S2: Dispose of waste safely and sustainably. Segregate resources for reuse and recycling.	A01
S3: Use and store PPE.	A01
S4: Prepare and maintain the work area.	A02
S5: Interpret engineering and manufacturing information for example, job specifications, engineering and manufacturing drawings, and technical information.	A02
S6: Use and store tools, equipment and machinery associated with engineering and manufacturing tasks, including carrying out basic maintenance.	A03
S7: Assist co-workers in engineering and manufacturing activity when required. For example, holding and positioning work-piece assembly.	A03
S8: Apply techniques to carry out basic hand-based engineering and manufacturing tasks.	A03
S9: Apply techniques to carry out basic machine-based engineering and manufacturing tasks.	A03
S10: Carry out simple quality checks of own work.	A02

Further Information

For information about SIAS policies, quality assurance, re-sits, appeals, complaints and general enquiries please see our website: www.siasuk.com

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