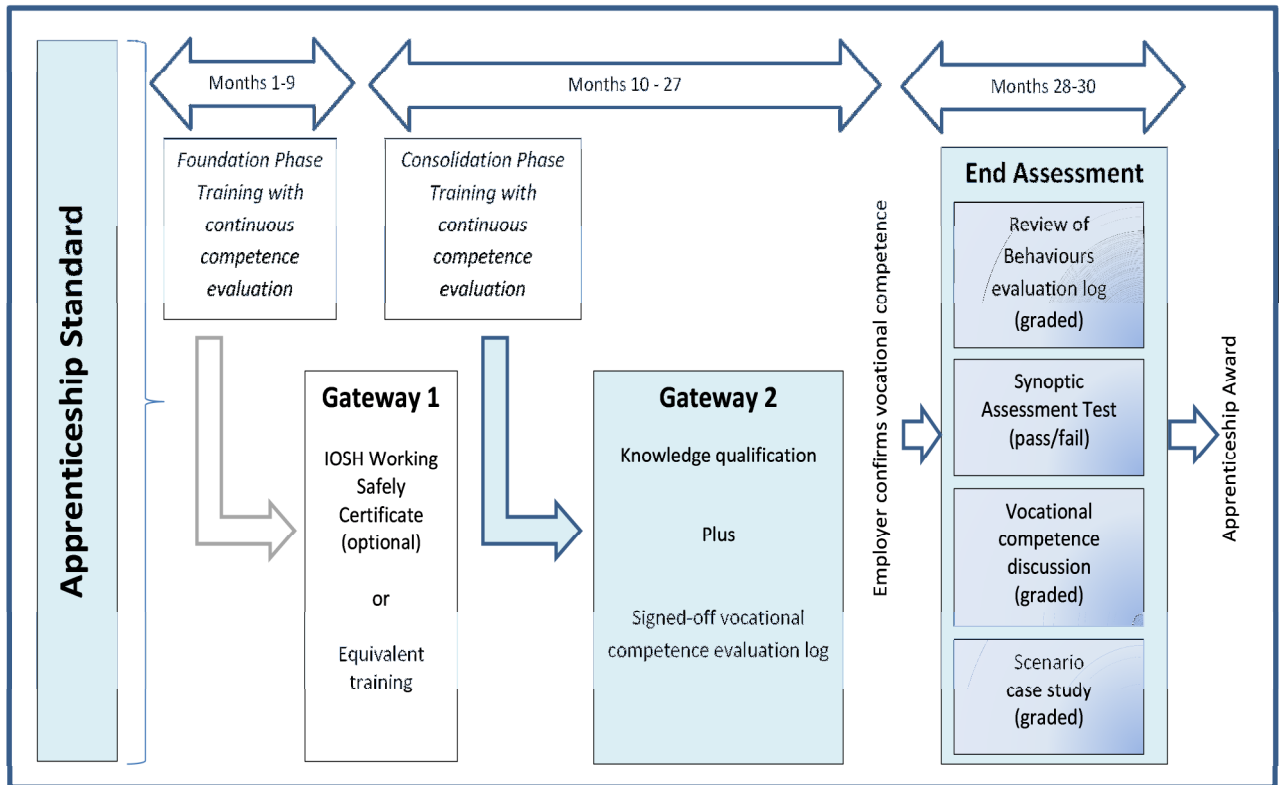


SIAS

A Summary of Science Manufacturing Technician Apprenticeship



There are two suggested phases of training. The Foundation Phase, which is typically months 1 -9, will focus on developing the apprentice's core skills, knowledge and behaviours, specifically around working safely, complying with internal and external regulations and following quality procedures. This training may take place in the workplace or in a largely simulated working environment. It will culminate in Gateway 1, a review of skills by suitably qualified and experienced personnel from the employer or their nominated training partner that will provide assurance that the apprentice has the understanding of the principles of working safely whilst following quality systems within a regulated environment. Whilst specific qualifications are not mandatory, evidence of completion of this gateway is confirmed in a log that is a record of their continuous competence evaluation. Completion of this log will be a pre-requisite for participation in the formal end assessment.

The Consolidation Phase, which is typically months 10 - 27, will focus on developing further skills capability supported by further guided learning, enabling the apprentice to eventually work effectively and independently with minimum supervision. The apprentice will work towards a qualification recognised by a professional body as suitable for registration for RsciTech or EngTech. Achievement of this qualification will also be a pre-requisite for participation in the formal end assessment. At the end of the Consolidation Phase the apprentice will have completed their training and through ongoing competence evaluation, including behaviours evaluation, they will have



generated a range of evidence to show they meet the apprenticeship standard. A suitably qualified and experienced assessor from the employer will sign off a log that is a record of their continuous competence evaluation to show they are ready for the formal end assessment. This assessor must be approved by the assessment organisation as meeting the required assessor standards.

Formal end assessment completed in the final 3 months will be based on a synoptic assessment test (SAT) in the workplace when the approved assessor will observe the apprentice on the job to ensure that the apprentice fulfils the SAT specification. An external assurer from the assessment organisation will observe part of the SAT and then lead a vocational competence discussion that may cover the whole of the apprenticeship standard. The apprentice will also complete a scenario case study designed to test understanding of transferrable skills and application of knowledge that would be required for them to adapt quickly and function effectively after minimal instruction on new equipment / environments or under revised working practices.

The apprenticeship award will be achieved on passing all elements of the formal end assessment. The apprenticeship is graded 'fail', 'pass' and 'distinction.'

Work-based learning guides

The LS&IS Trailblazer employers have developed a work based learning guide that describes the detailed competence sets that underpin each element of the apprenticeship standard. Based on national occupational standards, the work based learning guide provides a detailed specification of the level of skills, knowledge and behaviours required to achieve occupational competence in the development phase of the apprenticeship.

Behaviours evaluation matrix

The LS&IS Trailblazer employers have developed a behaviours evaluation matrix that describes the assessment criteria that should be used by employers to determine whether the apprentice meets the required standard. It also indicates the behaviours that would contribute to achieving a distinction for the apprenticeship award. The behaviours evaluation matrix is included in the work based learning guide.

It is recommended that an apprenticeship training plan is mapped to the work based learning guide and the behaviours evaluation matrix for the apprenticeship standard.