



Regulated Qualifications Unit and Assessment Specification

Unit title	Sheet Metal Insulation Protection
Regulator unit code	J/503/5366
SQA Unit code	H4YV 60
SSC Ref	VR324

History of changes

Publication date: September 2013

Version: 02 (July 2017)

Version number	Date	Description	Authorised by
02	July 2017	Unit Specification updated to reflect current Ofqual terminology, and change made to Guided Learning Hours.	Qualifications Officer

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Regulated qualifications unit specification

Title	Sheet Metal Insulation Protection	
Level	2	
Credit value	16	
Learning Outcomes	Assessment Criteria	
The learner will:	The learner can:	
1	Be able to interpret information to select materials, components and equipment, to produce and install sheet metal insulation protection.	1.1 Identify types and application of sheet metal according to specifications. 1.2 Calculate the amount of sheet material, including wastage for given tasks. 1.3 Maintain and care for hand tools and portable power tools and associated equipment.
2	Be able to fabricate and fit sheet metal cladding/ protection over pipe, duct and vessel insulation.	2.1 Use drawing skills to develop geometric shaped templates for sheet metal insulation cladding/protection. 2.2 Fabricate ferrous and non-ferrous sheet metal protection for insulated surfaces. 2.3 Fix and secure sheet metal to insulated surfaces.
3	Be able to apply safe working practices whilst installing sheet metal insulation protection at all times.	3.1 Identify requirements of safety legislation. 3.2 Describe how to protect work and the workplace from damage. 3.3 Describe safe working practices for moving, handling and storing resources. 3.4 Carry out a risk assessment prior to the production and installation of sheet metal protection for insulated surfaces. 3.5 Follow safe working practices when producing and installing sheet metal protection to insulated surfaces.

Additional information about the unit	
Unit purpose and aim(s)	This unit develops learners' skills in drawing, measuring, marking cutting, forming, shaping, fitting, fixing and securing ferrous and non-ferrous metal cladding/protection to pipes, ducts and vessels in order to be able to produce and install sheet metal insulation protection. Learners will learn about the resources associated with this work, such as sheet metal cladding materials, components and fixing and the safe use of hand- and power-tools and associated equipment.
Unit start date	01 September 2013
Details of the relationship between the unit and relevant national occupational standards (if appropriate)	J/503/5366 — VR324 Fit sheet metal insulation protection
Details of the relationship between the unit and other standards or curricula (if appropriate)	
Assessment Requirements specified by a sector or regulatory body (if appropriate)	<p>Assessment of learners' knowledge and understanding will be undertaken through practical assignment and questioning based activities undertaken in the training environment.</p> <p>For the full training specification refer to the relevant Level 2 Diploma in Thermal Insulation Assessment Pack provided by SQA and TICA.</p>
Endorsement of the unit by a sector or other appropriate body (if required)	ConstructionSkills
Location of the unit within the subject/sector classification system	5.2 Building and Construction
Name of the organisation submitting the unit	SQA
Guided Learning Hours	100

Regulated qualifications unit assessment specification

Assessment (evidence) requirements:

Learners are required to produce evidence to confirm that they have achieved all learning outcomes and assessment criteria outlined in this unit. Learner training and assessment should take place in as realistic an environment as possible to that of a live working site.

Performance evidence is required to demonstrate that the learner has achieved the standard specified in the learning outcomes and assessment criteria.

Performance evidence must be produced at an appropriate point in training under supervised conditions once the learner has developed the necessary skills and knowledge required to carry out the assessment. This performance evidence must be supplemented with a completed assessor observational/operational checklist.

As part of the assessment for this unit, the learner may be required to produce evidence of a method statement and a completed risk assessment for a specified training activity. Oral or written evidence of knowledge and understanding may be demonstrated by the learner during practical assignments set for all learning outcomes and noted at the time by the training assessor.

Guidance on Instruments of assessment:

Centres may use the method of assessment which they consider to be most appropriate but are encouraged to use the relevant Level 2 Diploma in Thermal Insulation Assessment Pack provided by SQA and TICA. It is expected that learners will have to demonstrate current knowledge and understanding of safe working practice and risk assessment methods etc., prior to being set the assessment tasks.

Opportunities for integrated assessment of this unit may be possible with all mandatory units.

Knowledge and understanding of the processes involved in removing and replacing components should be assessed before any practical assignments are carried out by learners. This will include assessment of a learner's ability to prepare the work area for removing and replacing components.

Practical assignments should be carried out under supervised conditions and recorded in an assessor observation/operational checklist. Assessments should confirm that a learner has the ability to remove and replace components using designated machinery or equipment correctly and safely, whilst adhering to current statutory health and safety regulations and legislation.

Adherence to current statutory working regulations and health and safety procedures will be observed during the practical exercise carried out by the learner towards all Learning Outcomes.

Opportunities for the use of e-assessment

E-assessment may be appropriate for some assessments in this unit. By e-assessment we mean assessment which is supported by information and communications technology (ICT), such as e-testing or the use of e-portfolios or e-checklists. Centres which wish to use e-assessment must ensure that the national standard is applied to all learner evidence and that conditions of assessment as specified in the assessment (evidence) requirements are met, regardless of the mode of gathering evidence. Further advice is available on the SQA Solar e-assessment system.