COSVR654L

# Fabricate joints in thermal insulation protection using sheet metal LEGACY

## Overview

This standard is about fabricating joints in sheet metal insulation protection, interpreting information, adopting safe and healthy  working practices, and selecting materials, components and equipment

This standard is for people working in the occupational area of Thermal Insulation and can be used by operatives, supervisors and managers

## Performance criteria

*You must be able to:*

P1 interpret the given information relating to the work and resources to confirm its relevance

P2 comply with the given, relevant legislation and official guidance to carry out your work and maintain safe and healthy work practices

P3 select the required quantity and quality of resources for the methods of work

P4 comply with organisational procedures to minimise the risk of damage to the work and surrounding area

P5 comply with the given contract information to carry out the work efficiently to the required specification

P6 complete the work within the allocated time, in accordance with the programme of work

## Knowledge and understanding

*You need to know and understand:*

Performance Criteria 1

Interpretation of information

K1 the organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented K2 the types of information, their source and how they are interpreted K3 the organisational procedures to solve problems with the information and why it is important they are followed

Performance Criteria 2

Safe work practices

K4 the level of understanding operatives must have of information for relevant, current legislation and official guidance and how it is applied K5 how emergencies should be responded to and who should respond K6 the organisational security procedures for tools, equipment and personal belongings K7 what the accident reporting procedures are and who is responsible for making the report K8 why, when and how health and safety control equipment should be used

Performance Criteria 3

Selection of resources

K9 the characteristics, quality, uses, sustainability, limitations and defects associated with the resources and how defects should be rectified K10 how the resources should be used and how any problems associated with the resources are reported K11 the organisational procedures to select resources, why they have been developed and how they are used K12 the hazards associated with the resources and methods of work and how they are overcome

Performance Criteria 4

Minimise the risk of damage

K13 how to protect work from damage and the purpose of protection K14 why disposal of waste should be carried out safely and how it is achieved

Performance Criteria 5

Meet the contract specification

K15 how methods of work, to meet the specification, are carried out and problems reported K16 how maintenance of tools and equipment is carried out

Performance Criteria 6

Allocated time

K17 what the programme is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

## Scope/range

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## Scope/range related to knowledge and understanding

Disposal of waste

1 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

Emergencies

2 operative's response to situations in accordance with organisational authorisation and personal skills when involved with 2.1 fires, spillages, injuries 2.2 emergencies relating to occupational activities

Hazards

3 those identified by risk assessment, method of work, manufacturers' technical information, statutory regulations and official guidance

Health and safety control equipment

4 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment 4.1 collective protective measures 4.2 personal protective equipment (PPE) 4.3 respiratory protective equipment (RPE) 4.4 local exhaust ventilation (LEV)

Information

5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations associated with thermal insulation

Legislation and official guidance

6 this relates to the operative's responsibilities regarding potential accidents and health hazards whilst working in the workplace, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting

Maintenance

7 operative care of hand tools and/or portable power tools and ancillary equipment

Methods of work

8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to 8.1 fabricate joints in sheet metal insulation protection, dome end, oblique unequal tee branch, eccentric reducer, bend trunnion, flat back bend (space saver), breach piece, two or more square to round, duct work transformation pieces 8.2 fabricate joints to recess around obstacles 8.3 apply eccentric triangulation 8.4 calculate surface area 8.5 apply trigonometry and geometry 8.6 develop templates by drawing development 8.7 identify allowances for bends, folds and forms 8.8 join sheet metals, including screws, folds, rivets and stud welding 8.9 incorporate joint methods that will reduce corrosion 8.10 identify the characteristics of sheet metals 8.11 use hand tools, portable power tools and equipment 8.12 work at height 8.13 use access equipment 9 team work and communication 10 needs of other occupations associated with the fabrication of joints in thermal insulation protection using sheet metal

Problems

11 those arising from information, resources and methods of work 11.1 own authority to rectify 11.2 organisational reporting procedures

Programme

12 types of progress charts, timetables and estimated times 13 organisational procedures for reporting circumstances which will affect the work programme

Protect work

14 protect work against damage from general workplace activities, other occupations and adverse weather conditions

Resources

15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist 15.1 sheet metals 15.2 joining materials 15.3 hand and/or portable powered tools and equipment 16 methods of calculating quantity, length, area and wastage associated with the method/procedure for the fabrication of joints in thermal insulation protection using sheet metal

Security procedures

17 site, workplace, company and operative

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