
Overview

This standard is about interpreting information, adopting safe and healthy working practices, selecting materials, components and equipment for fitting and assembling plain and circular bespoke products for one or more of the following groups: architectural joinery; wheelwrighting (carriage construction); shopfitting products (timber and/or non-ferrous metal)

This standard is for people working in the occupational area of wood occupations 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

Performance Criteria 1

Interpretation of information

You need to know and understand:

- 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

You need to know and understand:

- K4 the level of understanding operatives must have of **information** for relevant, current **legislation and official guidance** and how it is applied
- K5 the types of **fire extinguishers** and how and when they are used
- K6 how **emergencies** should be responded to and who should respond
- K7 the organisational **security procedures** for tools, equipment and personal belongings
- K8 what the accident reporting procedures are and who is responsible for making the report
- K9 why, when and how **health and safety control equipment** should be used

Performance Criteria 3

Selection of resources

You need to know and understand:

- K10 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K11 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K12 the organisational procedures to select **resources**, why they have been developed and how they are used
- K13 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

Performance Criteria 4

Minimise the risk of damage

You need to know and understand:

- K14 how to **protect work** from damage and the purpose of protection
- K15 why **disposal of waste** should be carried out safely and how it is achieved

Performance Criteria 5

Meet the contract specification

You need to know and understand:

- K16 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K17 how **maintenance** of tools and equipment is carried out

Performance Criteria 6

Allocated time

You need to know and understand:

- K18 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, method statements, risk assessments, cutting lists and manufacturers' information related to the work to be carried out

Performance Criteria 2

- 2 avoidance of risk by complying with the given information relating to the following
 - 2.1 methods of work
 - 2.2 safe use of health and safety control equipment
 - 2.3 safe use, storage and handling of materials
 - 2.4 safe use and storage of tools and equipment

Performance Criteria 3

- 3 selection of resources associated with own work
 - 3.1 materials, components and fixings
 - 3.2 tools and equipment

Performance Criteria 4

- 4 protection of the work and its surrounding area from damage
- 5 minimise damage and maintain a clean work space
- 6 disposal of waste in accordance with current legislation

Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, fit, finish, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 fit and assemble to form bespoke manufactured products to given working instructions for one of the following groups
 - 9.1 architectural joinery group (at least three items from the following):
door sets; doors; opening windows; units and/or fitments;
panelling/cladding; joinery products incorporating any of the following – glass, non-ferrous metal, fabrics, veneers and laminates;
staircases (straight and with turns); handrails and balustrades;
joinery products with single curvature features; joinery products with double curvature features
 - 9.2 wheelwrighting group (carriage construction): wheels plus at least two items from the following – doors; frames; wooden framed vehicles; shafts; butt welding rims; metal and/or rubber tyreing;
wooden framed vehicles with single curvature features; wooden framed vehicles with double curvature features
 - 9.3 shopfitting products group (timber and/or non-ferrous metal and/or composite materials) at least four items from the following: doors; frames and linings; shopfront sashes, including associated elements; panelling/cladding; wall and floor units; products incorporating any of the following – glass, fabrics, veneers; staircases; handrails and balustrades; shopfitting products with single curvature features; shopfitting products with double curvature features; soffits and bulkheads

Performance Criteria 6

- 10 completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client

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

Fire extinguishers

- 3 water, CO₂, foam, powder and their uses

Hazards

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

Health and safety control equipment

- 5 identified by the principles of protection for occupational use, types and purpose of each type, work situations and general work environment
 - 5.1 collective protective measures
 - 5.2 personal protective equipment (PPE)
 - 5.3 respiratory protective equipment (RPE)
 - 5.4 local exhaust ventilation (LEV)

Information

- 6 drawings, specifications, schedules, method statements, risk assessments, cutting lists, manufacturers' information, component standards and regulations governing buildings (animal welfare)

Legislation and official guidance

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

Maintenance

- 8 sharpening of hand tools and operative care of portable power tools and ancillary equipment

Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to:
 - 9.1 fit and assemble bespoke products
 - 9.2 produce straight in plan and elevation; door sets, doors, opening windows, units and fitments and panelling/cladding
 - 9.3 wooden framed vehicles, shafts, wheels, welded carriage components, metal and rubber tyreing (wheelwrighting only)
 - 9.4 produce staircases, handrails and balustrades straight and with turns
 - 9.5 produce veneers – hand and machine
 - 9.6 produce products with single and double curvature features
 - 9.7 produce bespoke products that incorporate associated materials (glass, plastics, fabrics, etc.)
 - 9.8 take site and workplace dimensions
 - 9.9 proportion joints associated with the product and construction method
 - 9.10 use hand tools, portable power tools and equipment
 - 9.11 requisition material
- 10 team work and communication
- 11 needs of other occupations associated with the manufacture of bespoke products

Problems

- 12 those arising from information, resources and methods of work
 - 12.1 own authority to rectify
 - 12.2 organisational reporting procedures

Programme

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

Protect work

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

Resources

- 16 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist:
 - 16.1 timber, manufactured sheet material, pre-machined components, setting out rods, non-ferrous metals, glass, plastics, fabrics, veneers, ironmongery, metal and rubber wheel rims, adhesives, sealants, fixings and associated ancillary items
 - 16.2 hand tools, portable power tools and equipment
- 17 methods of calculating quantity, length, area and wastage associated with the method/procedure to manufacture bespoke products

Security procedures

- 18 site, workplace, company and operative

COSVR632 – SQA Unit Code HG75 04

Manufacture bespoke products

Developed by ConstructionSkills

Version number 2

Date approved April 2014

Indicative review date April 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN VR632

Relevant occupations Carpenter and Joiner

Suite Wood Occupations (Construction); Heritage Skills (Construction)

Key words Assemble; Architectural joinery; Wheelwrighting; Carriage construction; Shopfitting; Timber;