

Overview

This standard is about inspecting, preparing and erecting mechanically joined metal chimney services and systems, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment, in accordance the work area and the organisational procedures which are equal to or exceed the current statutory and legislative documentation and specifications

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

A description of terms in bold font in this National Occupational Standard can be found in the Glossary which should be used as a reference point



	nterpretation of information		
Performance criteria You must be able to:	P1 interpret the information relating to the work and resources to confirm its relevance for the following:		
	Safe work practices		
	 comply with the relevant legislation, official guidance and organisational procedures to carry out your work and maintain safe, healthy and environmentally responsible work practices relating to the following: methods of work safe use of health and safety control equipment relevant to the task being undertaken and the working environment safe use of access equipment and working platforms safe use, storage and handling of materials, tools and equipment specific risks to health including mental health specific risks associated with asbestos containing materials specific risks associated with silica dust, mortars and sealants 		
·	Selection of resources		
	P3 select the required quantity and quality of resources for the methods of work: • materials, components, fixings, anchors and ties • tools and equipment • access equipment		



	Minimise the risk of damage		
		mply with organisational procedures to minimise the risk of mage to the work and surrounding area by: protecting the work and its surrounding area from damage maintaining a safe, clear and tidy work area disposing of waste in accordance with current legislation and industry best practice	
	Meet the	e contract specification	
		mply with the given contract information to carry out the work iciently to the required specification by the following: demonstrating work skills to measure, mark out, fit, finish, position and secure using and maintaining hand and power tools and ancillary equipment erecting internal or external mechanically joined metal chimney structures to working and manufacturers' instructions	
	Allocate	Allocated time	
Performance criteria You must be able to:	wit	mplete the work within the estimated, allocated time in accordance th organisational procedures , the programme of work and to set the needs of other occupations and/or client	

Commented [JM1]: Works?



		1 Interpretation of information		
Knowledge and	K1	why organisational procedures have been developed, to report and rectify inappropriate information and unsuitable resources, and		
understanding		how they are implemented		
	K2	types of information, their source and how they are interpreted in		
You need to		relation to:		
know and		documentation and specifications		
understand:		drawings		
		schedules		
		contract information		
		pre-installation surveys		
		risk assessments		
		method statements		
	K3	the range of relevant digital services, tools and systems, and how		
		they are used		
	K4	the importance of organisational procedures to report and resolve		
		problems with the information, and why it is important to follow them		
	P2 S	P2 Safe work practices		
	K5	information for current legislation and official guidance and how it is		
		applied		
	K6	the types of fire extinguishers and how and when they are used in		
		relation to water, CO ₂ , foam, powder		
	K7	how emergencies should be responded to and reported in		
		accordance with organisational authorisation and personal skills in		
		relation to:		
		fires, spillages and injuries		
		emergencies relating to occupational activities		
		identification and reporting of asbestos containing materials		
	K8	the organisational security procedures for tools, equipment and		
		personal belongings in relation to:		
		operative		
		• site		
		workplace		
		vehicles		
		company		
		customer		
		the general public		
		other occupations within the workplace		



Knowledge and understanding	К9	how to report risks and hazards identified by the following: methods of work risk assessment personal assessment
know and understand:		 manufacturers' technical information statutory regulations official guidance Control of Substances Hazardous to Health (COSHH)
	K10	the accident reporting procedures and who is responsible for making the report
	K11	why, when and how health and safety control equipment identified by the principles of prevention should be used in relation to: collective protective measures personal protective equipment (PPE) respiratory protective equipment (RPE) local exhaust ventilation (LEV)
	K12	how to comply with environmentally responsible work practices to meet current legislation and official guidance when dealing with potential accidents, health hazards and the environment in relation to working: in the workplace below ground level in confined spaces at height with tools and equipment with materials and substances whilst moving and storing materials by manual handling and mechanical lifting



	P3 Selection of resources		
Knowledge	K13	why the characteristics, quality, uses, sustainability, limitations and	
and		defects associated with the resources are important and how defects	
understanding		should be rectified	
	K14	the organisational procedures to select resources, why they have	
You need to		been developed and how they are used	
know and understand:	K15	how to confirm the resources and materials conform with the specification	
	K16	how the resources should be used and how any problems	
		associated with the resources are reported in relation to:	
		metal chimney components	
		ventilated fire stops	
		wall sleeves	
		boxing and access materials	
		jointing materials	
		sealants	
		fixings	
		anchors	
		• ties	
		fittings	
		hand tools	
		equipment	
	K17	how to identify the hazards associated with the resources and	
		methods of work and how they are overcome	
	K18	how to calculate the quantity, length and wastage	
	P4 Minimise the risk of damage		
	K19	how to protect work and its surrounding area from damage and the	
		purpose of protection from general workplace activities, other	
		occupations and adverse weather conditions and how to minimise	
		damage to existing building fabric	
	K20	why and how the disposal of waste must be carried out safely in	
		accordance with the following	
		environmental responsibilities	
		organisational procedures	
		manufacturers' information	
		statutory regulations	
		official guidance	
	K21	why it is important to maintain a safe, clear and tidy work area	



Knowledge and understanding

know and

understand:

You need to

P5 Meet the contract specification

- K22 how the methods of work to meet the specification, are carried out and how problems are identified and reported by the application of knowledge for safe, healthy and environmentally responsible work practices, procedures and skills relating to the method and area of work in relation to the following:
 - how to erect and dismantle internal and external mechanically joined metal chimney structures
 - how to provide temporary and permanent support
 - why it is important to provide temporary and permanent support
 - the importance of flue designation and how to check that the flue is compatible with the appliance and its intended use
 - the importance of how the flue passes through floors, internal and external walls including ventilated fire stops and wall sleeves
 - why it is important to meet the distance to combustibles requirement including maintaining a distance between boxing in and cages
 - why it is important to minimise the amount of bends in the system
 - why it is important to select the correct flue diameter
 - why it is important that the flue terminates in an appropriate position
 - how to provide access for inspection and maintenance
 - how to carry out remedial preparation and making good to the building structure
 - how to install anchors and ties
 - how to work with lifting equipment and accessories
 - the relevance of an assessment of significance and how to recognise, specific requirements for structures of special interest, traditional construction, hard-to-treat buildings and historical significance
 - how to work safely with, around and in close proximity to plant and machinery
 - how to identify and follow the installation quality requirements
 - how to use hand and power tools and equipment
 - how to work at height using access equipment
 - how and why operative care and maintenance of hand and power tools and equipment is carried out

K23

the importance of team-work and communication, organisational procedures with respect to site behaviours, and how to report to inappropriate site behaviours



K2	24	the needs of other occupations associated with erecting metal
		chimneys

	P6 A	P6 Allocated time		
	K25	the programme of work to be carried out including the estimated and		
		allocated time and why deadlines should be kept		
	K26	the types of progress charts, timetables and estimated times and the organisational procedures for reporting circumstances which will		
		affect the work programme		
Glossary		Organisational procedures		
		Organisational		
		Insurances – public, product and employers liability, professional indemnity		
		Company documents		
		contract for the work, safety management plan, CDM,		
		environmental policy, complaints procedure, information		
		privacy and security policy, management structure		
		Work area		
		The area where the equipment will be installed and all		
		areas affected by the work extending to topographical		
		features and meteorological conditions		
		Services and systems		
		Chimney and flue systems, appliances, ventilation systems		
		and appropriate utilities		
		Documentation and specifications		
		Manufacturers' instructions for all equipment that forms		
		part of the work		
		architect's plans and site-specific documentation		
		local building rules and regulations		
		Party Wall legislation		
		Clean Air Act		
		Environment Act		
		Smoke Control Zones		



Permitted Development
Conservation Areas
Heritage status
Areas of Outstanding Natural Beauty
Sites of Special Scientific Interest
specific requirements of insurance underwriters
Building regulations in England and Wales, particularly
ADJ but also ADA, ADB, ADF, ADL and AD7
Building Standards Technical Handbook in Scotland
Technical Booklets in Northern Ireland, particularly B, D, E,
F1, F2, K and L
BSEN's particularly 8303, 15287, 1856, 16510, 1251,
3376, 4834, 12815, 13229, 13240, 15250

Note: Technical and BSEN documents may be withdrawn or superseded during review programmes, it is therefore important to check the currency and validity of all such documents to ensure the correct version is being referenced.

Appliances

Solid fuel burning appliances up to 50kW output including but not limited to the following:

- · open fires
- free standing room heaters
- inset room heaters
- free standing cookers
- independent boilers
- slow heat release stoves



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