

## **Overview**

This standard is about repairing and maintaining mastic asphalt. It includes identifying and repairing surface defects in mastic asphalt.

This standard will also involve interpreting information, adopting safe, healthy, and environmentally responsible work practices, selecting, and using materials, components, tools and equipment, minimising damage, and working within the allocated time, in accordance with organisational requirements which are equal to or exceed current statutory and legislative requirements.

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

<b>Performance criteria</b> <i>You must be able to:</i>	<b>Interpretation of information</b>	
	<b>P1</b>	interpret the information relating to the work and resources to confirm its relevance for the following: <ul style="list-style-type: none"> <li>• drawings</li> <li>• specifications</li> <li>• schedules</li> <li>• risk assessments</li> <li>• method statements</li> <li>• oral and written instructions</li> <li>• manufacturer's information</li> </ul>
	<b>Safe work practices</b>	
	<b>P2</b>	comply with the current legislation and official guidance to carry out the work, and maintain safe systems of work relating to the following: <ul style="list-style-type: none"> <li>• methods of work</li> <li>• safe use of health and safety control equipment</li> <li>• safe use of access equipment or systems</li> <li>• safe use, storage, and handling of materials, tools, and equipment</li> <li>• specific risks identified through a risk assessment or during work</li> <li>• specific risks to health including mental health and wellbeing</li> </ul>
	<b>Selection of resources</b>	
	<b>P3</b>	select the correct quantity and quality of the following resources for the methods of work: <ul style="list-style-type: none"> <li>• materials</li> <li>• components and fixings</li> <li>• tools and equipment</li> </ul>
<b>Minimise the risk of damage</b>		
<b>P4</b>	comply with organisational procedures to minimise the risk of possible damage to the work, its surrounding area, and environment by: <ul style="list-style-type: none"> <li>• protecting the work and its surrounding area</li> <li>• maintaining a safe, clear, and tidy, work space</li> <li>• disposing of waste in accordance with site procedures and current legislation</li> </ul>	
<b>Meet the contract specification</b>		
<b>P5</b>	comply with the contract information to repair and maintain mastic asphalt efficiently to the required specification by: <ul style="list-style-type: none"> <li>• demonstrating work skills to:                             <ul style="list-style-type: none"> <li>- prepare the area</li> <li>- cut materials to size</li> <li>- fit, apply, and position, materials where required</li> </ul> </li> <li>• using and maintaining tools and equipment</li> <li>• visually inspecting and surveying the condition of mastic asphalt and repairing to working instructions for:</li> </ul>	

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<p><b>Performance criteria</b>  <i>You must be able to:</i></p>		<ul style="list-style-type: none"> <li>- cracks, splits, and blisters</li> <li>- removing debris and freeing blockages to gutters and outlets</li> </ul>
		<p><b>Approach to the work</b></p> <p><b>P6</b> complete the work within the estimated and allocated time, in accordance with organisational procedures, the programme of work, and to meet the needs of others and the client</p>

<b>Knowledge and understanding</b> <i>You need to know and understand:</i>	<b>P1 Interpretation of information</b>	
	<b>K1</b>	why organisational procedures have been developed and how they are implemented
	<b>K2</b>	types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> <li>• drawings</li> <li>• specifications</li> <li>• schedules</li> <li>• risk assessments</li> <li>• method statements</li> <li>• manufacturer's information</li> <li>• oral and written procedures for dealing with damaged and incorrect materials and resources</li> <li>• current legislation and regulations governing buildings</li> </ul>
	<b>K3</b>	the importance of reporting and rectifying inappropriate information
	<b>K4</b>	the range of relevant digital services, tools, and systems, and how they are used
<b>P2 Safe work practices</b>		
	<b>K5</b>	information for current legislation and official guidance and how it is applied
	<b>K6</b>	the different types of fire extinguishers and how and when they are used in relation to: <ul style="list-style-type: none"> <li>• water</li> <li>• CO2</li> <li>• foam</li> <li>• powder</li> </ul>
	<b>K7</b>	how emergencies should be responded to in accordance with organisational authorisation and personal skills, in relation to: <ul style="list-style-type: none"> <li>• fires, spillages, injuries</li> <li>• emergencies relating to occupational activities</li> <li>• identification and reporting of asbestos containing materials</li> </ul>
	<b>K8</b>	the organisational security procedures for tools, equipment, and personal belongings, in relation to: <ul style="list-style-type: none"> <li>• operative</li> <li>• site</li> <li>• workplace</li> <li>• company</li> <li>• vehicles</li> </ul>

		<ul style="list-style-type: none"> <li>• customer</li> <li>• the general public</li> <li>• plant equipment</li> </ul>
<b>Knowledge and understanding</b> <i>You need to know and understand:</i>	<b>K9</b>	how to report risks and hazards identified by the following: <ul style="list-style-type: none"> <li>• methods of work</li> <li>• risk assessment</li> <li>• personal assessment</li> <li>• manufacturer’s technical information</li> <li>• statutory regulations</li> <li>• official guidance</li> <li>• Control of Substances Hazardous to Health (COSHH)</li> </ul>
	<b>K10</b>	the accident and near miss reporting procedures and who is responsible for making the report
	<b>K11</b>	why, when, and how health and safety control equipment, identified by the principles of prevention should be used, in relation to: <ul style="list-style-type: none"> <li>• collective protective measures</li> <li>• personal protective equipment (PPE)</li> <li>• respiratory protective equipment (RPE)</li> <li>• local exhaust ventilation (LEV)</li> </ul>
	<b>K12</b>	how to comply with environmentally responsible work practices to meet current legislation and official guidance
	<b>K13</b>	the organisational procedures when dealing with potential accidents, health hazards, and the environmental impact, whilst working: <ul style="list-style-type: none"> <li>• in the workplace</li> <li>• below ground level</li> <li>• in confined spaces</li> <li>• at height</li> <li>• on the highway</li> <li>• with tools and equipment including plant equipment and gas</li> <li>• with materials and hazardous substances</li> <li>• when moving and storing materials by manual handling and mechanical lifting</li> </ul>
	<b>P3 Selection of resources</b>	
	<b>K14</b>	why the limitations, sustainability, and defects, associated with the resources are important, and how defects should be rectified
	<b>K15</b>	why the resources have been selected, and how they are used

	<b>K16</b>	how to confirm the resources and materials conform with the specified task
<b>Knowledge and understanding</b> <i>You need to know and understand:</i>	<b>K17</b>	<p>how the resources should be used, and how any problems associated with the resources are reported in relation to:</p> <ul style="list-style-type: none"> <li>• mastic asphalt</li> <li>• bitumen</li> <li>• adhesives</li> <li>• felts</li> <li>• solar protection</li> <li>• air and vapour control layers (AVCLs)</li> <li>• expanded metal lath</li> <li>• flashings</li> <li>• edge trims</li> <li>• gas</li> <li>• lime dust</li> <li>• rubbing sand</li> <li>• asphalt buckets</li> <li>• associated fixings and fittings</li> <li>• digital equipment</li> <li>• tools and equipment</li> <li>• temporary traffic management equipment</li> </ul>
	<b>K18</b>	how to identify the hazards associated with the resources, and methods of work, and how they are overcome
	<b>K19</b>	methods of calculating the quantity, length, square meterage, and possible percentage of wastage, associated with the method and procedure to repair and maintain mastic asphalt
<b>P4 Minimise the risk of damage</b>		
	<b>K20</b>	how to protect work, its surrounding area and the environment, from possible damage and the purpose of protection from general workplace activities, other trades, and adverse weather conditions
	<b>K21</b>	how to minimise damage to existing building fabric
	<b>K22</b>	<p>why and how, the safe disposal of waste must be carried out in accordance with the following:</p> <ul style="list-style-type: none"> <li>• environmental responsibilities</li> <li>• organisational procedures</li> <li>• manufacturer's information</li> <li>• site guidance</li> </ul>
	<b>K23</b>	why it is important to maintain a safe, clear, and tidy, work space

<b>Knowledge and understanding</b> <i>You need to know and understand:</i>	<b>P5 Meet the contract specification</b>	
	<b>K24</b>	how to meet the contract specification in relation to the following: <ul style="list-style-type: none"> <li>• how to identify and evaluate defects in mastic asphalt including mechanical and chemical damage</li> <li>• how to carry out general maintenance requirements including cutting out damaged areas (cracks, splits, and blisters) and repairing with new hot mastic asphalt</li> <li>• how to utilise mastic asphalt plant and equipment including:                             <ul style="list-style-type: none"> <li>- mixers</li> <li>- cauldrons</li> <li>- hot charges</li> <li>- gas and gas torches</li> </ul> </li> <li>• why it is important to use gas in accordance with manufacturer's instructions and official guidance</li> <li>• the importance of constraints relating to the repair and maintenance of mastic asphalt on historic and listed buildings</li> <li>• why it is important to identify and follow the installation quality requirements</li> <li>• when to seek specialist advice</li> <li>• the limits of your own authority</li> <li>• how to work with, around, and in close proximity, to plant and machinery</li> <li>• how to work at height</li> <li>• how to use access equipment and systems</li> <li>• how to use tools and equipment</li> <li>• how and why operative care and maintenance of tools and equipment is carried out</li> <li>• how to use temporary traffic management equipment and systems</li> </ul>
	<b>K25</b>	the importance of teamwork and communication
	<b>K26</b>	the importance of mental health awareness and wellbeing
	<b>K27</b>	the importance of applying fairness, inclusion, and respect, (FIR) when dealing with others
	<b>K28</b>	the needs of other trades associated with repairing and maintaining mastic asphalt
	<b>P6 Approach to the work</b>	
	<b>K29</b>	the programme of work to be carried out including the estimated and allocated time, and why deadlines should be kept

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