

## **Mark Scheme for June 2013**

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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Question	Answer	Marks	Guidance
1	<p>Band 1 Limited explanation – award one mark for talking about an engineering achievement and up to a further two marks for explaining how people’s lives have been changed as a result of this achievement.</p> <p>Band 2 Adequate explanation – award up to two marks for talking about an engineering achievement and up to a further four marks for including depth or breadth explaining how people’s lives have been changed as a result of this achievement.</p> <p>Band 3 Detailed explanation – award up to three marks for talking about an engineering achievement and up to a further seven marks for including depth and breadth explaining how people’s lives have been changed as a result of this achievement.</p> <p>Depth: Expansion of a single change. Breadth: Expansion involving multiple changes.</p> <p>Lower end of mark band just meets criteria. Middle of mark band adequately meets criteria. Upper end of mark band convincingly meets criteria. Part (a) and part (b) of this question can be treated independently ie It is possible to gain three marks for part (a) and zero marks for part (b).</p>	<p>Up to [3]</p> <p>Up to [6]</p> <p>Up to [10]</p>	<p>For <b>all</b> questions. For answers marked by level of response: <b>To determine the level –</b> Start at the highest level and work down until you reach the level that matches the answer <b>To determine the mark within this level,</b> refer to the chart in paragraph 10.</p>

Question	Answer	Marks	Guidance
2	<p>Band 1 Limited explanation – award one mark for identifying a single issue and up to a further two marks for relevant points.</p> <p>Band 2 Adequate explanation – award up to six marks for a response that considers at least two issues in depth or breadth.</p> <p>Band 3 Detailed explanation – award up to six marks for a response that considers at least two issues and up to a further four marks for including logical and relevant supporting evidence that demonstrates both depth and breadth.</p> <p>Depth: Expansion of a single issue, ie. highlighting more than one point.</p> <p>Breadth: Expansion involving more than one issue perhaps relating to social, human, political or economic effects.</p> <p>Lower end of mark band just meets criteria. Upper end of mark band convincingly meets criteria.</p>	<p>Up to [3]</p> <p>Up to [6]</p> <p>Up to [10]</p>	

Question	Answer	Marks	Guidance
3	<p>Band 1 Limited information – award one mark for identifying an appropriate professional body and up to a further two marks for relevant points about the professional body.</p> <p>Band 2 Adequate information – award one mark for identifying an appropriate professional body and up to a further five marks for explaining the work it does.</p> <p>Band 3 Detailed information – award one mark for identifying an appropriate professional body and up to a further nine marks for explaining the work it does and outlining the merits of membership including logical and relevant supporting evidence.</p> <p>Lower end of mark band just meets criteria. Upper end of mark band convincingly meets criteria.</p>	<p>Up to [3]</p> <p>Up to [6]</p> <p>Up to [10]</p>	

Question	Answer	Marks	Guidance
4	<p>Band 1 Limited information – award one mark for naming a sector and up to two marks for a relevant point about the job role of a professional person.</p> <p>Band 2 Adequate information – award one mark for naming a sector and up to five further marks for a response with depth or breadth about the job role of a professional person.</p> <p>Band 3 Detailed information – award one mark for naming a sector and up to nine further marks for a response with depth and breadth about the job role of a professional person.</p> <p>Depth: Focussing on a single role, eg. workshop manager in a single sector.</p> <p>Breadth: Multiple roles in a single sector or, a single role in more than one sector, eg. workshop manager, sales manager, parts and warranty manager.</p> <p>Lower end of mark band just meets criteria. Upper end of mark band convincingly meets criteria.</p>	<p>Up to [3]</p> <p>Up to [6]</p> <p>Up to [10]</p>	

Question	Answer	Marks	Guidance
5	<p>Band 1 Limited explanation – award up to three marks for explaining, with at least one example, of how the engineering industry could improve the way materials are conserved.</p> <p>Band 2 Adequate explanation – award up to six marks for explaining, with at least two examples, of how the engineering industry could improve the way materials are conserved.</p> <p>Band 3 Detailed explanation – award up to ten marks for explaining, with at least three examples, of how the engineering industry could improve the way materials are conserved.</p> <p>Examples of material conservation: reduce the quantity used, recycle, reuse where possible, refuse—the consumer has the choice as to whether they buy a product or not, rethink the way in which materials are being used and repair where possible rather than discard.</p> <p>Lower end of mark band just meets criteria. Upper end of mark band convincingly meets criteria.</p>	<p>Up to [3]</p> <p>Up to [6]</p> <p>Up to [10]</p>	

Question	Answer	Marks	Guidance
6	<p>Band 1 Limited explanation – award one mark for a basic definition of the rights of an employee, one mark for the duties of an employer, and one mark for making reference to legal responsibilities.</p> <p>Band 2 Adequate explanation – award one mark for a definition of the duties of an employee, one mark for the duties of an employer, one mark for making reference to legal responsibilities and up to three further marks for a response which includes relevant examples.</p> <p>Band 3 Detailed explanation – award one mark for a definition of the duties of an employee, one mark for the duties of an employer, one mark for making reference to legal responsibilities and up to five further marks for a response which includes logical and relevant examples. Additionally, two marks for reference to appropriate legislation.</p> <p>A response could include some or all of the following points: Employers and employees have responsibilities to each other, they should also expect their rights to be upheld. These rights and responsibilities relate to areas such as Health and Safety, supervision and the provision of training. The Health and Safety at Work Acts set out responsibilities and rights for both employees and employers. Employees are expected to carry out their work in a way that has regard to the safety of others. Employers are expected to abide by a range of requirements governing such aspects as providing safe machinery and equipment, carrying out regular health and</p>	<p>Up to [3]</p> <p>Up to [6]</p> <p>Up to [10]</p>	

Question	Answer	Marks	Guidance
	<p>safety checks, ensuring the training of employees in health and safety issues, and carrying out a risk assessment to assess the dangers of particular work activities. There are also specific regulations about the way in which potentially harmful substances should be used and stored. There are a number of requirements about the minimum temperature at work, and other aspects of working conditions.</p> <p>Lower end of mark band just meets criteria. Upper end of mark band convincingly meets criteria.</p>		

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