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# Examiners' Report

## NEBOSH NATIONAL CERTIFICATE IN FIRE SAFETY AND RISK MANAGEMENT

### UNIT FC1: FIRE SAFETY AND RISK MANAGEMENT

**SEPTEMBER 2018**

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# Introduction

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NEBOSH (The National Examination Board in Occupational Safety and Health) was formed in 1979 as an independent examining board and awarding body with charitable status. We offer a comprehensive range of globally-recognised, vocationally-related qualifications designed to meet the health, safety, environmental and risk management needs of all places of work in both the private and public sectors.

Courses leading to NEBOSH qualifications attract around 50,000 candidates annually and are offered by over 600 course providers, with examinations taken in over 120 countries around the world. Our qualifications are recognised by the relevant professional membership bodies including the Institution of Occupational Safety and Health (IOSH) and the International Institute of Risk and Safety Management (IIRSM).

NEBOSH is an awarding body that applies best practice setting, assessment and marking and applies to Scottish Qualifications Authority (SQA) Accreditation regulatory requirements.

This report provides guidance for candidates and course providers for use in preparation for future examinations. It is intended to be constructive and informative and to promote better understanding of the syllabus content and the application of assessment criteria.

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Any enquiries about this report publication should be addressed to:

NEBOSH  
Dominus Way  
Meridian Business Park  
Leicester  
LE19 1QW

tel: 0116 263 4700  
fax: 0116 282 4000  
email: [info@nebosh.org.uk](mailto:info@nebosh.org.uk)

## General comments

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Many candidates are well prepared for this unit assessment and provide comprehensive and relevant answers in response to the demands of the question paper. This includes the ability to demonstrate understanding of knowledge by applying it to workplace situations.

There are other candidates, however, who appear to be unprepared for the unit assessment and who show both a lack of knowledge of the syllabus content and a lack of understanding of how key concepts should be applied to workplace situations.

This report has been prepared to provide feedback on the standard date FC1 examination sat in September 2018.

Feedback is presented in these key areas: responses to questions, examination technique and command words and is designed to assist candidates and course providers prepare for future assessments in this unit.

Candidates and course providers will also benefit from use of the 'Guide to the NEBOSH National Certificate in Fire Safety and Risk Management' which is available via the NEBOSH website. In particular, the guide sets out in detail the syllabus content for FC1 and tutor reference documents for each Element.

Additional guidance on command words is provided in 'Guidance on command words used in learning outcomes and question papers' which is also available via the NEBOSH website.

Candidates and course providers should also make reference to the FC1 'Example question paper and Examiners' feedback on expected answers' which provides example questions and details Examiners' expectations and typical areas of underperformance.

## Unit FC1

### Fire safety and risk management

- Question 1** An inspection by an enforcing officer has identified that there is no fire risk assessment available at a workplace.
- (a) **Outline** actions that the enforcing officer may take against the organisation. (2)
  - (b) **Outline** the steps that should be completed when carrying out a fire risk assessment. (14)
  - (c) **Identify** external sources of information that an organisation could consult when carrying out a fire risk assessment. (4)

This question assessed candidates' knowledge and understanding of learning outcomes 6.2: Outline the principles and practice of fire safety risk assessments including principles of prevention (measures to remove and reduce risk); 1.5: Outline the main sources of external fire safety information and the principles of their application; and 1.3: Describe the roles and powers of enforcement agencies and other external agencies in relation to fire safety.

The majority of candidates answered this question well. In part (a) many candidates correctly stated that an enforcing officer could issue a notice then went on to give detail of what each notice entails which was not asked for. Fewer candidates outlined that the officer could also give advice or give a caution.

There was a mixed response to part (b). Many candidates gave a response based around the 5 steps to risk assessment but did not apply it clearly to a fire risk assessment. Many candidates focused much of their answer on a detailed list of practical controls that may be implemented as a result of a fire risk assessment being carried out, which was not asked for. An answer focusing on each step of the fire risk assessment process would have gained better marks. Candidates are reminded again to read and re-read questions to help reduce the chances of misinterpreting what is being asked for in a question.

Answers to part (c) were generally good with most able to identify suitable external sources of information to gain at least half of the marks available.

- Question 2**
- (a) **Outline** the active role that the Environment Agency may take during a fire incident. (2)
  - (b) **Outline** practical factors that should be taken into account when planning to minimise the potential environmental impact of a fire at a major chemical plant. (6)

This question assessed candidates' knowledge and understanding of learning outcome 4.6: Outline steps to minimise the environmental impact of fire and firefighting operations.

There was a mixed response to this question. Many candidates seemed to misinterpret part (a) by outlining measures the Environment Agency may make *after* a fire such as initiate a prosecution rather than its role *during* a fire incident. The role they may take includes giving advice to the fire and rescue service on pollution at the site and assisting in trying to prevent pollution from the fire.

Part (b) was misinterpreted by some candidates. In many cases measures were given that would be used while a fire incident was ongoing such as using drain covers and booms to contain firefighting water run-off, rather than outlining the factors that should be considered in the *planning stage* in order to minimise the environmental impact of a fire. Such factors would include considering the quantities and properties of chemicals on site, location of drains on site and expected flow patterns of firefighting water run-off during an incident.

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**Question 3**      **Outline** financial reasons for maintaining good standards of fire safety in an organisation. **(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 1.1: Outline the moral, legal and financial consequences of inadequate management of fire safety.

There was a good response to this question with many candidates giving a good range of relevant financial reasons for good fire safety standards. The majority of responses were awarded well above half marks. Some candidates strayed onto outlining legal and moral reasons as well, which did not affect marks awarded but would have cost those candidates time in the examination, writing points that were not relevant to the question.

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**Question 4**      A fire safety audit of an industrial site that handles solid and liquid flammable materials has identified failings in the management of waste. The failings will significantly affect the level of fire risk.

**Outline** issues that should be considered in order to manage these waste materials effectively and minimise fire risk. **(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 3.2: Outline appropriate control measures to minimise fire and explosion risks.

There were some fair answers to this question. Some candidates gave controls to manage storage of flammable liquids, which was not required. While some controls for flammable liquids will also be relevant to managing waste materials, other issues such as regular inspections of skips and waste areas and regular waste collections by specialist waste disposal organisations were missed.

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**Question 5**      **Outline** what should be considered when determining the adequacy of an escape route. **(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 4.2: Explain the requirements of a means of escape.

There were many good answers to this question with the majority of candidates gaining full, or close to full marks. A good range of relevant factors to consider such as the width of the escape routes, travel distances and keeping escape routes free of obstructions were correctly outlined by most candidates.

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- Question 6** A warehouse has collapsed in a major fire. It was a steel-frame structure with composite panels. The warehouse contained stacked rolls of plastic film ready for distribution.
- (a) **Identify** the class of the fire **AND give** the reason for that classification. (2)
- (b) **Outline** what may have contributed to the rate of fire growth and the collapse of the building. (6)
- 

This question assessed candidates' knowledge and understanding of learning outcomes 2.4: Describe the principles of fire growth and fire spread; and 2.3: Identify the classification of fires.

Many candidates seemed to have difficulty in answering this question. In part (a) most correctly identified for class of fire, although fewer gave a correct reason for the classification based on the fuels that would have been involved.

In part (b) many candidates correctly outlined that expansion and weakening of the structural steel will have been factors in the collapse of the building. There were few candidates who appreciated that the rolls of plastic film would have contributed to the fire load in the building and fire would spread quickly across the surface of the plastic film affecting the rate of growth of the fire.

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- Question 7** **Outline** issues that should be considered by a fire and rescue service before starting an investigation into a serious fire at a workplace. (8)
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This question assessed candidates' knowledge and understanding of learning outcome 1.6: Explain the purpose of, and the procedures for, investigating fires in the workplace.

There was a mixed response to this question. Many candidates gave good answers with a good range of relevant issues being outlined.

Answers that suggested candidates had misinterpreted the question, mostly either considered issues to look for during the investigation rather than what to consider before starting it, or what an enforcing officer may want to look for in a fire safety inspection. Neither of these were asked for and attracted few marks.

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- Question 8** People react in different ways in the event of a fire.
- (a) **Outline** how people may become aware of the threat of a fire. (4)
- (b) **Outline** measures that could be introduced to overcome the behavioural problems of people in the event of a fire. (4)
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This question assessed candidates' knowledge and understanding of learning outcome 5.3: Outline the perception and behaviour of people in the event of a fire.

There was a good response to this question with most candidates gaining more than half marks. Both parts were answered well with a good range of means by which people can become aware of a fire given as well as relevant measures to manage behaviour of people in a fire such as use of fire marshals and fire drills.



## Examination technique

The following issues are consistently identified as the main areas in need of improvement for candidates taking Certificate level qualifications:

### Candidates misread/misinterpreted the question

Candidates misreading or misinterpreting the question is by far the most common cause of candidates not gaining the maximum marks available.

NEBOSH questions are systematically and carefully prepared and are subject to a number of checks and balances prior to being authorised for use in question papers. These checks include ensuring that questions set for the Certificate level qualifications relate directly to the learning outcomes contained within the associated syllabus guides. The learning outcomes require candidates to be sufficiently prepared to provide the relevant depth of answer across a broad range of subject areas. For example, a candidate could be asked about the causes of stress, or could be asked about the effects of stress. A question could require a response relating to the principles of fire initiation, or a question could require a response relating to the spread of fire. Therefore, a candidate should focus not only on the general topic area (eg stress, fire) but also the specific aspect of that subject to which the question relates.

Candidates must also pay attention to the command word. For example, a question could ask candidates to '**identify** the hazards associated with demolition work', or a question from the same element could ask candidates to '**outline** the control measures required during demolition work'. Candidates appear to focus solely on the object of the question (demolition) and do not pay sufficient attention to the subject (hazards or control measures in the examples given) or the command word ('identify' or 'outline' in the examples given). There is often some confusion between hazard and risk. If a question requires an outline of hazards for a given situation, candidates must be careful not to provide risks, or even in some circumstances precautions, as they will not be able to attract marks.

Examiners suggest that while many candidates do begin their answer satisfactorily and perhaps gain one or two marks, they then lose sight of the question and include irrelevant information. Although further points included in an answer can relate to the general subject area, these points are not focused on the specific learning outcome and marks cannot be awarded. However, some candidates appear to misread or misinterpret several questions. This situation is more likely due to candidates preparing for the examination with a number of memorised answers obtained through rote-learning, that again can provide answers that are loosely associated with the subject matter but do not provide answers specific to the question. Such an approach is clearly evident to an Examiner and demonstrates little understanding of the subject matter and marks are not awarded.

Candidates are advised to allow sufficient time to read and re-read the question in order to determine the key requirements prior to committing their answer to paper. Preparing a time plan before the examination will indicate how many minutes are available for each question and then part of this time allocation can be given to reading the question. Underlining or highlighting key words can assist in keeping focused on the salient points and simple mind maps or answer plans can also be useful. Maps and plans should be kept simple so as not to use up too much examination time.

### Candidates did not respond effectively to the command word

A key indicator a question will be the command word, which is always given in **bold** typeface. The command word will indicate the depth of answer that is expected by the candidate and relates to the amount of detail that should be included in each point of the answer.

The learning outcomes in each element of all syllabus guides include the relevant command word that dictates the level of detail that should be covered in a course of study and the depth of answer that a candidate would be expected to provide in an answer to an examination question.

Examiners report that candidates continue to incorrectly observe the command words and therefore compromise their ability to gain the marks available. The majority of cases where command words are not observed relate to insufficient detail being given by a candidate in their examination answer. A significant number of candidates, irrespective of the command word given in the question, provide all answers in the form of a brief list of one or two words. This would normally not be sufficient to gain marks where the command word given was 'outline', 'explain' or 'describe', all of which require answers of more than one or two words.



Some candidates do provide too much information, which would not be required where a command word limits the expected answer to 'give' or 'identify'. Candidates would not be penalised for providing excessive detail but this would not be an efficient use of the time allocated.

Course providers should ensure that learning materials complement the command words in the syllabus guide and the NEBOSH guidance on command words and that sufficient time is given to advising candidates on suitable examination technique during a course of study.

### **Candidates unnecessarily wrote the question down**

Developing a time plan is a key element in preparing for an examination. Advice included on Certificate question papers suggests that 30 minutes should be allocated for the answer to the long 20-mark question, and 90 minutes should be allocated to the answers for the remaining ten, 8-mark short questions. Therefore there are around 9 minutes available to answer an 8-mark question. This time will be required for reading the question properly at least twice, developing an answer plan, and then committing the answer to paper while regularly referring back to the question in order to maintain focus. Therefore any inefficient use of this time should be avoided.

The efficient use of this time is essential in order to ensure that all questions can be answered within the 2 hours available. Many candidates feel it necessary to write out the question, in full, prior to providing their answer and although this practice will not lose marks it will lose valuable time. A significant number of candidates do not answer all of the questions in the time permitted and do not complete the question paper, some of whom obviously run out of time.

### **Candidates provided rote-learned responses that did not fit the question**

It is clear that there are a significant number of candidates who seem to recite answers in the examination that have been rote-learned in advance and do not answer the question.

While knowledge of material forms a part of the study for a Certificate-level qualification, a key aspect being assessed is a candidate's **understanding** of the subject and reciting a pre-prepared and memorised answer will not show a candidate's understanding. In fact, if a candidate gives a memorised answer to a question that may look similar, but actually is asking for a different aspect of a topic in the syllabus, it shows a lack of understanding of the subject and will inevitably result in low marks being awarded for that answer.

### **Candidates repeated the same points but in different ways / Candidates provided the same answer to different questions**

There are instances where candidates repeat very similar points in their answers, sometimes a number of times. This is easily done in the stressful environment of the examination. However, once a point has been successfully made and a mark awarded for it, that mark cannot be awarded again for similar points made later in the answer.

Candidates are advised to practise examination technique in their preparations to avoid this kind of pitfall. Writing an answer plan where points can be ticked off when made, or structuring an answer so that each point made is clearly shown, for example by underlining key points, can be of great use. This technique aids candidates and makes it much clearer in the stress of the examination for candidates to see which points have been made and reduce the chances of the same point being made several times.

### **Candidates did not answer all of the questions**

It has been noted that a number of candidates do not attempt all of the questions and of course where a candidate does not provide an answer to a question, no marks can be awarded. This seriously affects the potential marks available and the possibility of achieving a pass. Course providers must emphasise the importance of attempting all questions in order to maximise the opportunity to attract marks.

There can be several reasons for this issue: running out of the allocated time for the examination, not knowing the answer to the question, or forgetting to answer a question.

Questions can be answered in any order and answers can be written in any order in the answer book provided. Candidates are advised to clearly keep track of questions they have attempted, such as marking them on the question paper that would minimise the risk of inadvertently missing a question to answer.

If the subject of the question is unfamiliar or the answer is not known, then it will be challenging to provide an answer. This can result from rote-learning and preparing for an examination with a number of memorised answers, or simply not being adequately prepared for the examination across the breadth of the syllabus. There is always the risk of a candidate 'going blank' in an examination situation, in which case candidates should be prepared with some techniques to help. Rather than trying to remember what was taught or what has been read, ask yourself 'what would I do, in this situation?'. Reference to personal application or experience is sometimes enough to stimulate an answer that otherwise may have been missed. Alternatively, candidates can go back to first principles and break a question down into elements such as 'people', 'equipment', 'materials' and the 'working environment'. Approaching a question in small sections can minimise the risk of being overwhelmed by it as a whole.

Running out of time can be avoided by having an examination time plan and working to it. The question paper advises that you should spend 30 minutes on the long answer (question 1) and 90 minutes on the remaining ten short answer questions. This will provide around 9 minutes per short answer, follow the clock and when the time per question has expired, move on. Answering a question partly is better than not answering at all.

### **Candidates did not allocate enough time to the question / Time management**

In a number of cases question 1 is left until last or later in the question paper and does not appear to be answered completely. Other candidates appear to rush the last one or two questions by providing very brief or bullet point answers, even when these questions require an outline. This indicates a lack of time management. It is advised that course providers and candidates spend time developing the skill of writing answers to questions bearing in mind the number of marks and time available. A 20-mark question requires significantly more detail than an 8-mark question.

Candidates might benefit from writing abbreviations to save time and to recognise that there is no need to write out the question at the beginning of their answer. Standard abbreviations such as HSE, RIDDOR, COSHH, PPE and DSE are acceptable.

### **Candidates' handwriting was illegible**

Sometimes Examiners have difficulty in reading the handwriting of some candidates. Although allowances are made for candidates under the pressure of an examination, course providers must remind candidates that their writing needs to be legible or valuable marks may not be picked up during marking.

There is a minimum literacy requirement for candidates on NEBOSH qualifications. As stated in the syllabus guides the standard of English required by candidates studying for Certificate level must be such that they can both understand and articulate the concepts contained in the syllabus.

NEBOSH recommends to accredited course providers that candidates taking this qualification should reach a minimum standard of English equivalent to an International English Language Testing System score of 6.0 or higher in IELTS tests in order to be accepted onto a Certificate level programme.

For further information please see the latest version of the IELTS Handbook or consult the IELTS website: <https://www.ielts.org/about-the-test/test-format>

Candidates wishing to assess their own language expertise may consult the IELTS website for information on taking the test: <https://www.ielts.org>

Course providers are reminded that they must ensure that these standards are satisfied or additional tuition provided to ensure accessible and inclusive lifelong learning.

## Command words

Please note that the examples used here are for the purpose of explanation only.

### Outline

The command word 'outline' is by far the most challenging for candidates. Referring to the NEBOSH guidance on command words available on the NEBOSH website, 'outline' means *"To indicate the principal features or different parts of"*.

Many candidates do not give sufficient detail in order to warrant an 'outline' answer. The NEBOSH guidance on command word states that *"an exhaustive description is not required. What is sought is a brief summary of the major aspects of whatever is stated in the question"*.

If the use of the command word in everyday language or conversation is considered it may help the candidate understand what is required. If asked to '**outline** the risks to an operator when manually closing a valve' an answer such as 'cuts, bruises, burns and strains' would be insufficient as this represents a listed answer. However, 'cuts from contact with sharp edges of the hand wheel, bruises from impact with adjacent plant items, burns from contact with adjacent uninsulated pipe work and strains from using excessive force' would be sufficient.

### Explain

The command word 'explain' requires the candidate to provide an understanding of the subject of the question and will usually be used in conjunction with 'why' or 'how'. Such as '**explain** how an interlocked guard operates' or '**explain** why a forklift truck may overturn'.

Some candidates approach an 'explain' question the same as an 'outline' and provide a number of individual points rather than providing an explanation as to how something operates or why something occurs. While some candidates do answer such questions sufficiently and satisfactorily, other candidates have difficulty in explaining in a logical sequence and many repeat the same point.

### Identify

'Identify' questions require the name or title of an item, such as, '**identify** the effects of electricity on the human body', or '**identify** the features of a vehicle route'. In most cases one or two words will be sufficient and further detail will not be required to gain the marks.

For example, if asked to '**identify** types of equipment found in an office' appropriate answers could be personal computer, printer, telephone, photocopier, etc. There would be no need to embellish those points with a description of the equipment or its function.

However, in contrast to 'outline' answers being too brief, many candidates feel obliged to expand 'identify' answers into too much detail, with the possible perception that more words equals more marks. This is not the case and course providers should use the NEBOSH guidance on command words within their examination preparation sessions in order to prepare candidates for the command words that may arise.

### Describe

The command word 'describe' clearly requires a description of something. The NEBOSH guidance on command words says that 'describe' requires a detailed written account of the distinctive features of a topic such that another person would be able to visualise what was being described.

If asked to describe the clock in the examination room, a person would have little difficulty in doing so and would most probably refer to its shape, its size, the colour of the clock and the style of numerals. Answers to such a question would almost certainly not result in general unconnected information about clocks, the history of clocks, or an explanation of why the clock is present in the room. Candidates should consider the general use of the command word when providing examination answers.

## **Give**

'Give' questions require a statement that is relevant to the subject asked for in the question but additional explanation is not required. Often, 'give' questions ask for the meaning of a particular term. While detailed explanation of the application of the term would not be required, a correct knowledge of the term itself is needed in order for the Examiner to award marks.

For additional guidance, please see NEBOSH's '*Guidance on command words used in learning outcomes and question papers*' document, which is available on our website: <https://www.nebosh.org.uk/i-am/a-student/> - from this page the document can be found by clicking on the relevant Qualification link, then on the 'Resources' tab.