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# Examiners' Report

## NEBOSH INTERNATIONAL CERTIFICATE IN CONSTRUCTION HEALTH AND SAFETY



### UNIT ICC1: MANAGING AND CONTROLLING HAZARDS IN INTERNATIONAL CONSTRUCTION ACTIVITIES

**SEPTEMBER 2018**

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#### CONTENTS

Introduction	2
General comments	3
Comments on individual questions	4
Examination technique	9
Command words	12

# 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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## 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 ICC1 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 International Certificate in Construction Health and Safety' which is available via the NEBOSH website. In particular, the guide sets out in detail the syllabus content for ICC1 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 ICC1 'Example question paper and Examiners' feedback on expected answers' which provides example questions and details Examiners' expectations and typical areas of underperformance.

## Unit ICC1

### Managing and controlling hazards in international construction activities

- Question 1** A pressure washing organisation specialises in cleaning patios using a hand-held lance attached to an electrically driven water pressurising unit. The organisation has received complaints from workers about work-related upper limb disorders (WRULDs).
- (a) **Identify** hazards when pressure washing a patio. (4)
- (b) (i) **Explain** why the pressure washing worker may be at risk of developing WRULDs. (8)
- (ii) **Outline** control measures that could help reduce the risk of WRULDs among pressure washing workers. (4)
- (iii) **Outline** other control measures that could help reduce risks to pressure washing workers. (4)

This question assessed candidates' knowledge and understanding of learning outcomes 4.1: Explain work processes and practices that may give rise to musculoskeletal hazards and the appropriate control measures; and 4.2: Explain the hazards and control measures which should be considered when assessing risks from manual handling activities.

The stem of the question specifically indicated that electrically powered pressure washers were to be used for cleaning patio areas. Part (a) required candidates to identify hazards that workers could expect to be present during the operation. Many candidates gave answers such as electrocution and slips/trips, which did not answer the question; electricity or slippery surfaces would have been awarded marks as the question asked for *hazards*.

Part (b) (i) asked candidates to give *explanations* for the development of WRULDs, which very few candidates provided. Some gave a list of causal factors, while others concentrated on manual handling or vibration issues. This part of the question carried the most marks, but the majority of candidates gained less than half marks here by not expanding on their answers. Further advice on command words can be found later in this report.

Part (b) (ii) and (iii) were well answered and most candidates were able to gain 3 of the available 4 marks for each part.

- Question 2** **Identify** topics that should be included in an induction for site visitors. (8)

This question assessed candidates' knowledge and understanding of learning outcome 2.2: Explain the appropriate general site control measures needed in setting up and organising a site.

Most candidates were able to identify a wide range of topics for an activity that almost every worker will have experience of and could relate to the subject matter. Most candidates gained over half marks for this question.

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**Question 3** Before an electric drill is used on a construction site it should be inspected by the worker to help ensure that it is safe to use.

**Outline** types of visible defect that may be found during such an inspection.

**(8)**

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This question assessed candidates' knowledge and understanding of learning outcomes 5.1: Outline general requirements for work equipment; and 6.2: Outline the control measures that should be taken when working with electrical systems or using electrical equipment.

There were a number of good answers but generally candidates found this question challenging. Some answers focused on a pedestal drill, while some discussed a pistol drill. Either were worthy of marks.

Some candidates gave defects that were *not* visible to the user on inspection, which did not answer the question.

Many only provided single-word answers in a list; the use of single words in an 'outline' question does not provide the depth required to gain good marks.

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**Question 4** **Identify** hazards during the demolition of a building.

**(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 12.1: Identify the main hazards of demolition and deconstruction work.

This question was answered well with most candidates being able to relate to the activity and identify a wide range of hazards.

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**Question 5** **Outline** control measures that help reduce risk of contact with overhead electricity transmission lines.

**(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 6.3: Outline the control measures to be taken when working near or underneath overhead power lines.

Some candidates found this question particularly challenging.

Most candidates discussed the use of barriers and the use of banksmen, but did not mention avoidance of work under the lines, level ground or adequate lighting. Some candidates concentrated on isolation of the lines and lengthy discussions about permit-to-work and Lock Out, Tag Out systems.

There was also widespread use of single-word answers which was not sufficient for an 'outline' question.

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**Question 6**      **Outline** features of *'suitable and sufficient'* traffic routes on a construction site. **(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 3.1: Explain the hazards and control measures for the safe movement of vehicles and plant within a construction environment, including when using public highways as a workplace.

Overall, this question was not answered well. Many candidates concentrated on what should be in place such as 'enforce speed limits' or 'erect signs' which are closer to management control measures rather than features of a traffic route as required by the question.

Some candidates gave measures to control site traffic, or concentrated on vehicle issues; neither of these answered the question which was looking for features of the traffic route. Good examination technique is to read and re-read the question to help understand what is being asked.

Better answers gave a wider diversity of considerations and correctly identified issues, such as adequate width of roadways, suitable construction and segregation. However, some candidates had difficulty providing this level of detail and provided single word answers.

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**Question 7**      (a)      **Outline** the need for noise exposure limit values. **(2)**  
                         (b)      **Give** the meaning of the term *'decibel'* (dB). **(2)**  
                         (c)      **Outline** factors that are likely to affect the performance of personal hearing protection. **(4)**

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This question assessed candidates' knowledge and understanding of learning outcome 9.1: Outline the health effects associated with exposure to noise and appropriate control measures.

Few candidates were able to gain marks for part (a) of this question. Some mentioned statute and enforcement, but not many were able to relate a safe limit to prevent workers from suffering hearing loss due to excessive exposure.

Many candidates mentioned noise and then provided UK action and limit values for part (b). This did not answer the question.

Part (c) was better answered and candidates were able to gain some marks.

A large number of candidates offered one-word answers instead of the depth demanded by the command word.

Although noise is a technical subject, it is an everyday management issue in the construction sector and needs to be addressed by safety professionals.

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**Question 8** **Identify** what should be considered *before* safe erection of a scaffold. (8)

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This question assessed candidates' knowledge and understanding of learning outcome 10.2: Explain safe working practices for access equipment and roof work.

Overall, this question was not answered well with most candidates concentrating on how to erect a scaffold and the features that should be in place for its safe use such as guardrails, toe-boards and platforms. The question states that it is looking for considerations *before* the scaffold is erected, such as purpose, type, location and loading of the scaffold. The key word 'before' was italicised to provide candidates with a sign-post to the answer.

Candidates are reminded to read and re-read the question carefully to reduce the possibility of misinterpreting what is being asked.

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**Question 9** **Identify** where emergency lighting should be fitted in a workplace. (8)

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This question assessed candidates' knowledge and understanding of learning outcome 7.5: Outline the requirements for an adequate and properly maintained means of escape in a construction workplace.

There were some good answers to this question with most candidates stating that suitable locations for emergency lighting include at exit doors or near stair, lifts or level changes.

Some candidates gave general lighting issues for office workplaces, which did not answer the question. A few offered issues of general fire safety requirements such as width of escape routes, assembly points and the use of marshals, again, marks were not available for these answers.

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**Question 10** Respiratory protective equipment (RPE) will be required when removing asbestos.

**Outline** what an employer should consider when selecting RPE for this task. (8)

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This question assessed candidates' knowledge and understanding of learning outcomes 8.4: Outline control measures that should be used to reduce the risk of ill-health from exposure to hazardous substances; and 8.5: Outline the hazards, risks and controls associated with specific agents.

Although asbestos was in the stem of the question, the main area for candidates was in the selection of respiratory protective equipment (RPE) as a key measure to reduce the risk of exposure to airborne contaminants.

Despite there being a wide range of available answers centred around filter types for the substance in question and protection provided, most answers were limited and the question was not well answered. With the question being about exposure to asbestos, candidates could have discussed approval of the RPE by local enforcers, to a national standard to determine levels of protection afforded by the equipment, and to maintain exposure below national or local limits.

Candidates were challenged by the technical aspects of selecting RPE. However, a general appreciation of the issues around selection would have been sufficient for candidates to apply their knowledge to the question and provide satisfactory answers. Candidates need to be prepared to apply their knowledge to a diverse range of issues providing them with the confidence to answer these questions.

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**Question 11**    **Identify** external sources of health and safety information that could be used by a designer to assist in the planning of a construction project. **(8)**

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This question assessed candidates' knowledge and understanding of learning outcome 1.4: Identify the nature and main sources of external construction health and safety information.

Candidates performed well on this question with most being able to interpret external sources. Only a few candidates offered internal sources of information.



## 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.