

Applied Science

OCR GCE Unit G621 Analysis at work Unit Recording Sheet

Please read the instructions printed at the end of this form. One of these sheets, suitably completed, should be attached to the assessed work of each candidate. 2 Unit Title | Analysis at work Unit Code G621 Session Jan / June Year **Centre Name Centre Number Candidate Number Candidate Name** Evidence: The candidate needs to produce a portfolio related to information on organisations that use science to analyse processes. Page Criteria **Teacher Comment** Mark No. AO1(a).1: Candidate will give a AO1(a).2: candidate will give AO1(a).3: candidate will give selected, brief description of the energy selected information obtained relevant information obtained from a nonpolicy of a non-domestic from a non-domestic consumer of domestic consumer of energy, to give a consumer of electricity; energy to give a description about detailed description of their energy policy and evaluate ways in which they limit their energy their energy policy; [0 1 2] [3 4] consumption. [5 6] AO1(b).3: candidate will state what is meant AO1(b).1: Candidate will state AO1(b).2: candidate will state by energy efficiency and explain how energy what is meant by energy what is meant by energy efficiency and state how the efficiency and describe how efficiency has been considered by the candidate's non-domestic energy efficiency has been candidate's chosen non-domestic consumer of consumer of energy has considered by the candidate's energy and evaluate the reduction of energy chosen non-domestic consumer considered energy efficiency by consumption by of energy by carrying out processes or · carrying out processes or carrying out processes or activities more activities more efficiently activities more efficiently efficiently (relate this to efficiency) (include a definition of energy eliminating wasteful processes eliminating wasteful processes or activities or activities efficiency) other means eliminating wasteful processes · other means: using accurate terminology and nomenclature. or activities other means generally using accurate terminology and nomenclature; [0 1 2] [5 6] [3 4] AO1(c).1: Candidate will state AO1(c).2: candidate will describe AO1(c).3: candidate will describe in detail how how their chosen organisation how their chosen organisation their chosen organisation has considered the has considered the has considered the environmental impacts environmental impacts environmental impacts cost savings cost savings cost savings of reducing energy consumption. of reducing energy consumption, of reducing energy consumption and relate it generally using correct, spelling, generally using correct to the energy policy of the organisation, using punctuation and grammar; accurate terminology, correct spelling, terminology, spelling, punctuation and grammar; punctuation and grammar. [0 1 2] [3 4 5] [6 7]

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	Criteria	Teacher Comment	Mark	Page No.	
AO2(a).1: Candidate will show	AO2(a).2: candidate will describe	AO2(a).3: candidate will describe and			
the forms of energy transfer	and compare large-scale and	compare the relative benefits and problems of			
involved in the generation of	small-scale electrical generation	large-scale and small-scale electrical			
electricity;	from two chosen fuel or energy	generation from two chosen fuel or energy			
candidate will describe briefly	sources;	sources;			
large-scale and small-scale	candidate will demonstrate good	candidate will demonstrate independent			
electrical generation from one	research skills and evidence of	research skills and evidence of selection of			
chosen fuel or energy sources;	selection of material;	relevant material.			
[0 1]	[2 3]	[4 5]			
AO2(b).1: Candidate will display	AO2(b).2: candidate will research	AO2(b).3: candidate will research and display			
information on energy values and	and display information on energy	information on energy values and fuel/energy			
fuel/energy costs to include	values and fuel/energy costs to	costs to include a range of			
one non-renewable	include	non-renewable			
one renewable	one non-renewable	renewable			
fuel/energy source used in the	one renewable	fuel/energy sources used in the generation of			
generation of electricity;	fuel/energy source used in the	electricity;			
candidate will show a number of	generation of electricity;	candidate will show a number of complex and			
straightforward calculations using	candidate will show a number of	straightforward calculations using the data			
the candidate's data, generally	complex and straightforward	researched, obtaining the correct solutions to			
obtaining the correct solutions;	calculations using the data	an appropriate degree of accuracy.			
and the second s	researched, generally obtaining				
	the correct solutions;				
[0 1]	[2 3]	[4 5]			
AO3(a).1: Candidate will	AO3(a).2: candidate will produce	AO3(a).3: candidate will produce a detailed			
produce a report of a qualitative	a detailed report of a qualitative	report of a qualitative analysis they have			
analysis they have carried out,	analysis they have carried out,	carried out, linked to a vocational context in			
linked to a vocational context in	linked to a vocational context in	which risk assessments have been produced			
which risk assessments have	which risk assessments have	with evidence equipment has been used safely			
been used;	been completed;	and to the appropriate degree of accuracy;			
relevant observations have been	relevant observations have been	relevant observations have been made and			
made and results suitably	made and results accurately	results accurately processed and interpreted;			
processed, with some	processed and interpreted;	the information is presented clearly, logically			
interpretation;	the information is presented	and has been evaluated.			
,	clearly and logically;				
[0 1 2 3]	[4 5]	[6 7]			
AO3(b).1: Candidate will	AO3(b).2: candidate will produce	AO3(b).3: candidate will produce a detailed			
produce a report of a quantitative	a detailed report of a quantitative	report of a quantitative analysis they have			
analysis they have carried out,	analysis they have carried out,	carried out, linked to a vocational context in			
linked to a vocational context in	linked to a vocational context in	which risk assessments have been produced,			
which risk assessments have	which risk assessments have	with evidence that equipment has been used			
been used:	been completed;	safely and to the appropriate degree of			
relevant observations have been	relevant observations have been	accuracy;			
made and results suitably	made and results processed and	relevant observations have been made and			
processed, with some	interpreted accurately;	results processed and interpreted accurately;			
interpretation;	the information is presented	the information is presented clearly and			
	clearly and logically;	logically and has been evaluated.			
[0 1 2 3]	[4 5]	[6 7]			
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Criteria						Teacher Comment	Mark	Page No.		
AO3(c).1: Candidate will produce a report of a third investigation they have carried out, linked to a vocational context in which risk assessments have been used; relevant observations or measurements have been made and results suitably processed, with some interpretation;	AO3(c).2: candidate will produce a detailed report of a third investigation they have carried out, linked to a vocational context in which risk assessments have been completed; relevant observations or measurements have been made and results accurately processed and interpreted; the candidate's information will be presented clearly and logically; [4 5]	AO3(c).3: candidate will produce a detailed report of a third investigation they have carried out, linked to a vocational context in which risk assessments have been produced with evidence equipment has been used safely and to the appropriate degree of accuracy; relevant observations or measurements have been made with the appropriate precision and results accurately processed and interpreted; the candidate's information will be presented clearly, logically and has been evaluated. [6 7]				nave ontext in product used saccuracy; tents had ecision atterpretect uated.	n ed afely ave and ed;			
Total/50										
If this work is a re-sit, please tick	Session and Year of previous submis	ssion	Jan / June	2	0	F	Please ti	ick to indicate this work has been standardised internally		

Please note: This form may be updated on an annual basis. The current version of this form will be available on the OCR website (www.ocr.org.uk).

A completed Centre Authentication form CCS160 **must** accompany the MS1 when it is sent to the moderator.

Guidance on Completion of this Form

- One sheet should be used for each candidate.
- 2 Please ensure that the appropriate boxes at the top of the form are completed.
- 3 Please enter *specific* page numbers where evidence can be found in the portfolio, and where possible, indicate to which part of the text in the mark band the evidence relates.
- 4 Circle the mark awarded for each strand of the marking criteria in the appropriate box and also enter the circled mark in the final column.
- Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.