

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.										
Unit Title	Developing control systems				Unit Code	R010	Session	Jan/June/Nov	Year	2 0
Centre Name							Centre Number			
Candidate Name							Candidate Number			
Criteria							Teacher Comments		Mark	Page No.
LO1: Be able to design control systems ¹										
MB1: 1 - 4 marks		MB2: 5 - 8 marks		MB3: 9 – 11 marks						
Identifies success criteria that are partly suitable and demonstrates a basic understanding of the requirements.		Identifies success criteria that are mostly suitable and demonstrates a sound understanding of the requirements.		Identifies success criteria that are all suitable and demonstrates a thorough understanding of the requirements.						
Selects components that partly meet the requirements, demonstrating a basic understanding of the properties and applications of some components.		Selects appropriate components that meet most of the requirements, demonstrating a sound understanding of the properties and applications of a good range of components.		Selects appropriate components that fully meet requirements, demonstrating a thorough understanding of the properties and applications of a comprehensive range of components.						
Uses block diagrams to create a design that partly meets requirements and demonstrates a basic understanding of input, process and output.		Uses block diagrams to create a design that mostly meets requirements and demonstrates a sound understanding of input, process (including variables and/or feedback) and output.		Uses block diagrams to create a design that fully meets all of the requirements and demonstrates a thorough understanding of input, process (including variables and feedback) and output.						
Creates sequences of instructions with limited suitability.		Creates sequences of instructions to define some of the control structures within the system.		Creates sequences of instructions to fully define the control structures within the system using variables and feedback.						
[1 2 3 4]		[5 6 7 8]		[9 10 11]						

MB1: 1 - 3 marks	MB2: 4 - 6 marks	MB3: 7 – 9 marks	Teacher Comments	Mark	Page No.
<p>Describes and gives a basic explanation for choices made in some aspects of the design with limited use of appropriate terminology and demonstrating a basic understanding of control systems.</p> <p>Information is partly relevant and presented in a basic format. Errors of grammar, punctuation and spelling prevent clear communication of these choices.</p> <p>Draws upon limited skills/knowledge/understanding from other units in the specification.</p> <p style="text-align: right;">[1 2 3]</p>	<p>Describes and gives a clear explanation for choices made in most aspects of the design, with some use of appropriate terminology and demonstrating a sound understanding of control systems.</p> <p>Information is for the most part relevant and presented in a well structured format. There are occasional errors in grammar, punctuation and spelling that do not affect the overall meaning.</p> <p>Draws upon some relevant skills/knowledge/understanding from other units in the specification.</p> <p style="text-align: right;">[4 5 6]</p>	<p>Gives a clear and detailed explanation for choices made in the design, using appropriate terminology consistently demonstrating a detailed understanding of control systems.</p> <p>Information is consistently relevant and presented in a clear and coherent format with few, if any errors in grammar, punctuation and spelling.</p> <p>Clearly draws upon relevant skills/knowledge/understanding from other units in the specification.</p> <p style="text-align: right;">[7 8 9]</p>			
LO2: Be able to implement control systems					
MB1: 1 - 4 marks	MB2: 5 - 7 marks	MB3: 8 – 10 marks			
<p>Partly implements a design incorporating a limited range of sensors and actuators with limited evidence of feedback and modification to the design.</p> <p style="text-align: right;">[1 2 3 4]</p>	<p>Implements a design incorporating a range of sensors, actuators and some feedback, carrying out some appropriate modifications to the design where necessary.</p> <p style="text-align: right;">[5 6 7]</p>	<p>Implements a design incorporating a wide range of sensors, actuators and feedback, consistently carrying out appropriate modifications to the design where necessary.</p> <p style="text-align: right;">[8 9 10]</p>			

MB1: 1 - 5 marks		MB2: 6 - 8 marks		MB3: 9 – 10 marks		Teacher Comments		Mark	Page No.
The system meets limited aspects of the design.		The system meets some of the success criteria identified in the design.		The system thoroughly meets the success criteria identified in the design.					
[1 2 3 4 5]		[6 7 8]		[9 10]					
LO3: Be able to test control systems									
MB1: 1 - 6 marks		MB2: 7 - 10 marks		MB3: 11 – 13 marks					
Creates a basic test plan which tests a limited amount of the functionality of the control system.		Creates a sound test plan which tests some of the functionality of the control system.		Create a comprehensive test plan which fully tests the functionality of the control system.					
Carries out basic testing of the test plan.		Carries out sound testing of the test plan.		Carries out thorough and effective testing of the test plan.					
[1 2 3 4 5 6]		[7 8 9 10]		[11 12 13]					
MB1: 1 – 3 marks		MB2: 4 - 5 marks		MB3: 6 – 7 marks					
Where necessary, devises basic refinements to the system in response to the results of the testing, with basic justification.		Where necessary, devises some appropriate refinements to the system, in response to the results of the testing, with clear justification.		Where necessary, devises appropriate refinements to the system, in response to the results of the testing with thorough justification.					
[1 2 3]		[4 5]		[6 7]					
Total 60/									
If this is a re-sit, please tick		Session and Year of previous submission		Jan/June/Nov		2 0		Please tick 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).

Guidance on Completion of this Form

- 1 **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.
- 5 Add the marks for the strands together to give a total out of 60. Enter this total in the relevant box.