



## Year 13 A2 ICT Checklist

NAME \_\_\_\_\_ GROUP \_\_\_\_\_

### MODULE 6 – “Coursework: Use of Information Systems for Problem Solving”

<b>CRITERIA for 15.1</b>	
<b>Analysis</b>	
Identify a real/realistic problem(s) for which an IT solution is appropriate and beneficial.	
Analyse the current situation and identify any dissatisfaction with the system; for the current system identify the data flows and processing requirements.	
Identify the problem's information flow and data dynamics, both in time, e.g. from one year end to the start of the next, and in processing.	
Subdivide the problem into manageable tasks and integrate the tasks into a coherent system.	
Produce a requirements specification for the identified tasks and the system as a whole; identify the precise needs of the users in relation to the identified tasks, i.e. derive the user and information requirements of a system considering the human aspects and physical environment.	
Identify the users' current IT skill level and further training needs.	
Determine evaluation criteria for the system.	
<b>CRITERIA for 15.2</b>	
<b>Design</b>	
Derive the input, processing and output needs to match the requirements specification.	

Divide the overall task into sub-tasks and schedule them.	
Outline a solution in IT terms meeting the requirements specification of the identified sub-tasks.	
Determine appropriate data capture and validation procedures, data organisation(s), output contents and formats, operational procedures and user interface(s) for the IT system.	
Relate possible solutions to the capabilities of the available hardware, software and human resources.	
Evaluate alternative IT strategies for meeting the requirements specification.	
Justify the choice of hardware and software to be used.	
Specify the financial and human implications of the proposed solution.	
Document the design to provide a detailed system specification, suitable for a third party to implement the system.	
Schedule the various stages of the implementation of the system.	
Determine the test strategy (including identifying the test data) for the system.	

<b>CRITERIA for 15.3</b> <b>Implementation and Testing</b>	✓
Make full and effective use of the chosen hardware and software facilities to implement the design.	
Test the system with typical, extreme (boundary) and erroneous data to ensure full compliance with the requirements specification; document the results, fully annotating the test output.	
Document the implementation stage in a technical manner that would be suitable for a maintenance developer.	

<b>CRITERIA for 15.4</b> <b>User Guide</b>	✓
Provide an appropriate user guide including installation and backup procedures.	

<b>CRITERIA for 15.5</b> <b>Evaluation</b>	✓
Produce an evaluation report. that applies the determined evaluation criteria to the solution to assess its compliance and its degree of effectiveness as a workable system.	
Involve the end-user in the process.	

<b>CRITERIA for 15.6</b> <b>Report</b>	✓
Produce a well-written project report to give an overview of the system and to enable the system to be used and maintained unaided.	