

2015 Project log

A-level Computing (2510)

Unit 4 - The Computing Practical Project (COMP4)

Please attach the form to your candidate's work and keep it at the centre or send it to the moderator as required.

Centre number

Centre name

Candidate number

Candidate's full name

Section 1 - The Project

To be completed by the candidate and returned to the teacher for approval before the project is started

Project title

Outline description

Section 2 - Project development

To be completed by the candidate and teacher

The candidate (**C**) and the teacher (**T**) should indicate which items are present in each section by selecting/ticking the appropriate boxes, providing the related page reference

Analysis	C	T	Page
Background to/identification of problem	<input type="checkbox"/>	<input type="checkbox"/>	
Description of the current system	<input type="checkbox"/>	<input type="checkbox"/>	
Identification of the prospective user(s)	<input type="checkbox"/>	<input type="checkbox"/>	
Identification of user needs and acceptable limitations	<input type="checkbox"/>	<input type="checkbox"/>	
Data source(s) and destination(s)	<input type="checkbox"/>	<input type="checkbox"/>	
Data volumes	<input type="checkbox"/>	<input type="checkbox"/>	
Analysis Data Dictionary	<input type="checkbox"/>	<input type="checkbox"/>	
Data flow diagrams (DFDs) (existing and proposed systems)	<input type="checkbox"/>	<input type="checkbox"/>	
Entity-relationship (E-R) model (if appropriate), E-R diagrams, entity descriptions	<input type="checkbox"/>	<input type="checkbox"/>	
Object analysis diagrams - inheritance, aggregation (if appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	
Numbered general and specific objectives of the project	<input type="checkbox"/>	<input type="checkbox"/>	

Candidate number**Candidate's full name**

Analysis (continued)	C	T	Page
Realistic appraisal of the feasibility of potential solutions	<input type="checkbox"/>	<input type="checkbox"/>	
Justification of chosen solution	<input type="checkbox"/>	<input type="checkbox"/>	
Evidence of use of appropriate analysis techniques	<input type="checkbox"/>	<input type="checkbox"/>	

Comment	Maximum mark	Mark awarded
	12	

Design	C	T	Page
Overall system design	<input type="checkbox"/>	<input type="checkbox"/>	
Description of modular structure of system	<input type="checkbox"/>	<input type="checkbox"/>	
Definition of data requirements (Design Data Dictionary)	<input type="checkbox"/>	<input type="checkbox"/>	
Description of record structure (if appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	
Validation required	<input type="checkbox"/>	<input type="checkbox"/>	
File organisation and processing (if appropriate) or database design including normalised relations (if appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	
Sample of planned SQL queries (if appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	
Identification of storage media	<input type="checkbox"/>	<input type="checkbox"/>	
Identification of suitable algorithms for data transformation, pseudocode of these algorithms	<input type="checkbox"/>	<input type="checkbox"/>	
Class definitions (diagrams) and details of object behaviours and methods (if appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	
User interface design (HCI) rationale	<input type="checkbox"/>	<input type="checkbox"/>	
UI sample of planned data capture and entry designs	<input type="checkbox"/>	<input type="checkbox"/>	
UI sample of planned valid output designs	<input type="checkbox"/>	<input type="checkbox"/>	
Description of measures planned for security and integrity of data	<input type="checkbox"/>	<input type="checkbox"/>	
Description of measures planned for system security	<input type="checkbox"/>	<input type="checkbox"/>	
Overall test strategy	<input type="checkbox"/>	<input type="checkbox"/>	

Comment	Maximum mark	Mark awarded
	12	

Candidate number**Candidate's full name**

Technical Solution

Evidence for this section may come from copies of code listings in the appendix and/or details of software tailoring included in the systems maintenance section. It is not expected that candidates will supply multiple copies of listings, systems or algorithm design documentation.

Comment	Maximum mark	Mark awarded
	20	

System testing	C	T	Page
Design of test plan	<input type="checkbox"/>	<input type="checkbox"/>	
A minimal set of test data	<input type="checkbox"/>	<input type="checkbox"/>	
Expected results for typical, erroneous and extreme (boundary) data where appropriate	<input type="checkbox"/>	<input type="checkbox"/>	
Annotated hard copy of samples of actual test runs	<input type="checkbox"/>	<input type="checkbox"/>	
Cross-referenced to the test plan	<input type="checkbox"/>	<input type="checkbox"/>	

Comment	Maximum mark	Mark awarded
	8	

System maintenance	C	T	Page
System overview	<input type="checkbox"/>	<input type="checkbox"/>	
A sample of detailed algorithm design	<input type="checkbox"/>	<input type="checkbox"/>	
Procedure and variable lists/descriptions for programs OR list of package items developed	<input type="checkbox"/>	<input type="checkbox"/>	
Annotated listings of program code/macro code and tailoring	<input type="checkbox"/>	<input type="checkbox"/>	

Comment	Maximum mark	Mark awarded
	7	

Candidate number

Candidate's full name

User manual, including Quality of Written Communication	C	T	Page
A brief introduction and installation instructions	<input type="checkbox"/>	<input type="checkbox"/>	
Detailed description of the use of the full system	<input type="checkbox"/>	<input type="checkbox"/>	
Samples of actual screen displays in situ	<input type="checkbox"/>	<input type="checkbox"/>	
Samples of error messages and error recovery procedures	<input type="checkbox"/>	<input type="checkbox"/>	
Quality of Written Communication	<input type="checkbox"/>	<input type="checkbox"/>	
Comment	Maximum mark		Mark awarded
	10		

Appraisal	C	T	Page
Comparison of project performance against numbered general and specific objectives	<input type="checkbox"/>	<input type="checkbox"/>	
User feedback authenticated by assessor	<input type="checkbox"/>	<input type="checkbox"/>	
Analysis of user feedback	<input type="checkbox"/>	<input type="checkbox"/>	
Possible extensions	<input type="checkbox"/>	<input type="checkbox"/>	
Comment	Maximum mark		Mark awarded
	6		