



# **BCS Higher Education Qualifications**

## **Diploma in IT**

### **Professional Project Syllabus**

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This qualification is regulated by one or more of the following: Ofqual, Qualifications Wales, CCEA Regulation or SQA.

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## 1. Rationale

This module provides the candidate with the opportunity to demonstrate practical skills in the creation, design, implementation, testing and documentation of a computer-based project, at the Diploma level.

## 2. Aims

- To allow candidates to undertake a significant piece of work, either individually or as a member of a group.
- To allow candidates to demonstrate their practical computing skills.

## 3. Objectives

Upon successful completion of this module, candidates will be able to demonstrate their competence in, and their ability to:

- Identify and investigate a topic which has a computer-based solution.
- Identify possible solutions, and select the most appropriate solution.
- Show awareness of any legal, social, ethical or professional implications of the solution.
- Plan the development of the solution.
- Use appropriate techniques and technologies to design and implement the solution.
- Identify and apply appropriate methods to demonstrate the fitness for purpose of the solution, providing full evidence in the project report.
- Document both the process undertaken and the product produced, including an appraisal of both.

## 4. Prior Knowledge Expected

Candidates must have achieved the Certificate in IT or have an appropriate exemption to be entered for the Diploma in IT.

Candidates are required to become a member of BCS, The Chartered Institute for IT to sit and be awarded the qualifications. Candidates may apply for a four year student membership that will support them throughout their studies.

## 5. Format and Duration

Candidates are expected to complete the work associated with this module in their own time and submit their project report for assessment at one of two assessment points in the year. Candidates are expected to spend approximately 200 hours on their project.

A project proposal must be submitted, and approved by Project Examiners, before the project can be submitted.

The project may be either an individual piece of work or part of a group project where some or all of the other group members might also be BCS candidates.

Candidates are responsible for finding an authenticator to provide guidance as necessary, and to authenticate the project as the personal work of the candidate. Authenticators are subject to approval by Project Examiners.

Projects are assessed as either Pass with Distinction, Pass with Credit, Pass or Fail.

## 6. Syllabus Detail

Category	Ref	Content
1 Select a topic and plan the work	1.1	Investigate an information systems problem and identify the needs of users of the computer-based solution.
	1.2	Produce a specification of the requirements.
	1.3	Identify milestones to provide project management.
	1.4	Produce a formal proposal for a joint or individual project.
2 Compare possible solutions	2.1	Compare contemporary solutions to given problems.
	2.2	Select the best solution for a given situation, considering resource and other constraints.
3 Design and implement the chosen solution	3.1	Select and apply appropriate technologies and techniques to the stages of the problem solution.
	3.2	Discuss legal, social, ethical and professional considerations of the problem solution.
4 Evaluate the fitness for purpose of the solution created	4.1	Discuss approaches to project evaluation.
	4.2	Select and apply an appropriate means of testing the solution.
	4.3	Provide evidence of the fitness for purpose.
5 Document the project to an appropriate professional level	5.1	Produce a project report to a good level of presentation.
	5.2	Evaluate the success of both the product and the process of the project, including personal reflection.
	5.3	Discuss how the solution and process might be improved in future.

## 7. Recommended Reading List

While most projects involve software development there is still a large variation in project type. Similarly, the actual process of software development also varies between projects. No single reference book would be appropriate for all projects. However, useful overall guidance may be found in

Dawson, C. W. (2009). *Projects in Computing and Information Systems: A Student's Guide* (2nd ed.). London: Addison Wesley.

Most candidates undertake this module as part of a preparation courses and have been taught specific software development methods. Some candidates submit a project they have undertaken for their employer and will have already followed company-specific standards for process and documentation. A few projects do not involve software development and might need a different approach to process and documentation.

Project examiners will accept a variety of documentation approaches. However, all candidates are recommended to read the guidance on the BCS website about the required elements of a project report. It might be necessary for a candidate to supplement college-specific or company-specific documentation in order to provide all the necessary elements of a BCS project report. Candidates are strongly advised to seek guidance from their authenticator on the best approach to documentation.

## 8. Contact Points

### Email:

Customer Service team via <https://www.bcs.org/contact-us>

### Phone:

UK: 01793 417417

Overseas: +44 (0)1793 417417

Lines are open Monday to Friday, 08.15 a.m. to 5.15 p.m. UK time.

### Website:

[www.bcs.org/heq](http://www.bcs.org/heq)

### Post:

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