Digi

Navigators

Qualification Specification

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About NCC Education

NCC Education is a UK awarding body, active in the UK and internationally. Originally part of the UK National Computing Centre, NCC Education started offering Computing qualifications in 1976 and from 1997 developed its portfolio to include Business qualifications, Computing qualifications for school children and a range of Foundation qualifications.

With Centres around the world, NCC Education aims to employ the latest technologies for learning, assessment and support. NCC Education is regulated by Ofqual (the Office of Qualifications and Examinations Regulation, see www.ofqual.gov.uk).

Why choose this qualification?

NCC Education's Digi-Navigators:

- is suitable for candidates at **Key Stage 2** of the English national curriculum (ages 7–11), as well as older (including adult) learners
- builds on students' understanding of **digital citizenship and online safety** – this means that candidates will improve their core skills and understanding of the online world and continue to be safe and responsible members of online communities
- prepares candidates to be the **next generation of digital innovators** – Digi-Navigators not only provides skills and understanding so that students can be critical consumers of hardware and software but, in expanding their knowledge of digital design and creation and of writing and testing simple programs, they will continue to lay the foundation for becoming **active producers of new and imaginative software**
- provides teachers with a **fresh and innovative syllabus** containing all the concepts, activities and resources to be able to deliver with confidence the new programming elements of the English national curriculum
- is **quality assured** by a UK awarding body with considerable expertise in providing high-quality IT/Computing qualifications and programmes
- sits within NCC Education's well-established suite of Computing and Business qualifications, which are **recognised and valued** by employers and universities worldwide

Structure and Assessment for the Qualification

Assessment Objectives

Digi-Navigators is assessed by a single online multiple-choice question (MCQ) examination once candidates have completed their preparation. Prior to taking the online MCQ examination, candidates must also complete a class activity assigned by NCC Education. All Learning Outcomes are assessed through the combination of the online MCQ examination and the class activity.

The online MCQ examination tests the theoretical aspects of the qualification's Learning Outcomes and the class activity focuses on the practical elements. This means that candidates can successfully demonstrate their knowledge and comprehension of the subject matter in addition to computational problem-solving and practical skills.

Overview of Digi-Qualifications Assessment

Qualification	Online MCQ Examination: Theoretical Component
Level 1 – Digi-Explorers	40 multiple-choice questions with a time-limit of 60 minutes
Level 2 – Digi-Navigators	40 multiple-choice questions with a time-limit of 60 minutes
Level 3 – Digi-Trailblazers	40 multiple-choice questions with a time-limit of 60 minutes

An online MCQ examination is a time-constrained assessment that will take place during specified weeks in an NCC Education Centre. Randomised questions are generated from the questions bank to minimise malpractice.

The 'Theoretical Component' of the online MCQ examination refers to questions which require candidates to recall relevant information and choose the correct answer online.

The 'Practical Component' of the class activity refers to a computer (lab) based task or tasks which require candidates to individually produce a particular digital artefact or artefacts.

Candidates will get their results from their respective centre. The result is calculated based wholly on the online MCQ examination. The 'Practical Component' which is performed in class, must be completed prior to candidates taking the online exam as it evidences their ability to apply the knowledge gained from the course. The practical components require candidates to produce a digital artefact and centre staff are required to keep a copy of candidates' work as proof of completion.

A specimen of online MCQ examination and answers are available on NCC Education's Virtual Learning Environment (VLE) for Centres to access.

Accessibility of Assessment

We review our guidelines on assessment practices to ensure compliance with equality law and to confirm assessment for our components is fit for purpose.

Reasonable Adjustments and Special Consideration

NCC Education is committed to providing reasonable adjustments and special consideration to ensure disabled candidates, or those facing exceptional circumstances, are not disadvantaged in demonstrating their knowledge, skills and understanding.

Further information on NCC Education's arrangements for giving reasonable adjustments and special consideration can be found in the NCC Education *Reasonable Adjustments and Special Considerations Policy*.

Supervision and Authentication of Assessment

Centres are required to organise all assessment activity for this specification according to NCC Education's Policies and Regulations.

Candidates' identity and the authenticity of their work (class activity) is verified to reflect the standard achieved by candidates, relevant to the specification Learning Outcomes and Assessment Criteria. Detailed guidance on this process is given in NCC Education's *Assessment Instructions*.

Administration

Assessment Cycles

Four assessment cycles are offered throughout the year, in March, June, September and December. Centre must make sure candidates have completed the assigned class activity (practical component) prior to taking part in the online MCQ examination.

Examination dates are published in the NCC Education *Activity Schedule*, which is provided to Centres by NCC Education Centre Support. It is also available on NCC Education's Candidate Registration Portal.

The *Activity Schedule* also gives the key dates for registering candidates for assessment cycles, and the dates when Centres can expect to complete the Digi e-assessment and the assessment results from NCC Education.

Language of Assessment

All assessment is conducted in English.

Candidates

NCC Education's qualifications are available to those Centre candidates who satisfy the entry requirements as stated in this specification.

Qualification and Unit Entry Requirements

Entry Requirements
The Digi-Navigators syllabus and assessment is suitable for candidates aged 7–11 (at Key Stage 2 of the English national curriculum) as well as older (including adult) learners. It is expected that candidates who are non-native English speakers are able to cope with the demands of preparing for and taking the Digi-Navigators assessment in English.

Candidate Entry

Candidates are registered by Centres for assessment via NCC Education's Candidate Registration Portal.

Further details can be found in NCC Education's *Centre Handbook*.

Syllabus

Syllabus overview

The Digi-Navigators syllabus contains the following topics, topic sections and Learning Outcomes. Syllabus topics may be covered in any order (as best suits the requirements of the candidates and their wider curriculum).

Syllabus content		
Topic	**Topic Section**	**Learning Outcomes**
Digital Design and Creation	Using Digital Images	• Understand how digital images can be manipulated for a given outcome.
	Creating Digital Video/Animation	• Understand how to storyboard and capture video or a series of stills to make an animation.
	Graphical Modelling	• Know how to use an object-based graphics package to design and develop a plan to meet a specific brief.
	Sound	• Know how to edit sound files for a purpose.
Computer Gaming	Developing Problem-Solving and Logical Reasoning Skills	• Develop problem-solving and logical reasoning skills.
	Programming Games	• Understand how programming code can be used to create a program for a specific purpose.
Presenting Information	Word Processing	• Use a range of skills to present text clearly, appropriately and for a specific purpose.
	Creating Digital Presentations	• Know how to combine a range of digital media to create a presentation for a specific audience • Understand how to use appropriate tools, such as hyperlinks, to enhance a presentation.
Digital Citizenship	Using Technology Safely, Respectfully and Responsibly	• Recognise the importance of keeping safe and being respectful when using technology. • Learn about potential dangers and how to avoid them.

	Web Research	• Know how to use a range of search techniques to find, select and refine reliable information. • Begin to understand how and why search engines select and rank results. • Understand plagiarism, validity and copyright in relation to online material.
Networks, Communication and Collaboration	Using Computer Networks	• Recognise what computer networks (including the Internet) are and how they function
	Communication and Collaboration	• Identify and understand how to use online tools that enable us to communicate and collaborate with others
Handling Data	Applying Data Analysis and representation	• Solve enquiries by identifying and interpreting appropriate data
	Modelling	• Know how to develop spreadsheet models to investigate real-life problems.
Programming Simulations and Physical Systems	Simulating Real-World Environments	• Understand how programs that mimic the real world are developed.
	Controlling Physical Systems	• Know how to program devices to control physical systems.

Results and Certificates

An overall numerical mark is awarded to candidates. The pass marks for Digi Navigators is 40%. All candidates who obtain marks below 40% are classed as *failed* in the examination.

The Digi e-assessment is auto marked by the VLE with grading as below:

- 0% – 39 % - Fail
- 40 % – 59 % - Pass
- 60 % – 69 % - Merit
- 70% and above - Distinction

After each assessment cycle, results slips are issued (in an electronic format) which detail the final mark. Electronic certificates will be issued for the centre to print.

Further Information

For more information about any of NCC Education's products, please contact customer.support@nccedu.com or, alternatively, visit www.nccedu.com to find out more about our suite of high-quality British qualifications.

Appendix 1 Qualification Documentation

The following NCC Education documentation has been referred to in this specification:

- Centre Handbook
- Assessment Instructions
- Reasonable Adjustments and Special Considerations Policy

All documentation, together with access to NCC Education's online resources, is available to Centres and (where applicable) candidates who have registered for assessment.