



## CERTIFICATE OF VALIDATION

New validation

Validation Process: **Revalidation**

<b>Provider Name</b>	National College of Ireland
<b>Date of Validation</b>	08-Apr-21

	Code	Title	Award	Exit
<b>Principal Programme</b>	PG24514	Higher Diploma in Science in Data Analytics	Higher Diploma in Science (Higher Diploma at NFQ Level 8) 8M21398 60 credits	N/A
<b>Embedded Programme</b>	PG24515	Certificate in Data Analytics	Certificate (Special Purpose Award at NFQ Level 8) 8S21400 30 credits	Yes

	First Intake	Last Intake
<b>Enrolment Interval</b>	01-Sep-21	31-Aug-26

### Principal Programme

	Full Time	Part Time	Delivery Mode: full-time / part-time
<b>Maximum Intakes per Annum:</b>	1	2	Full Time, Part Time
<b>Minimum Learners per Intake:</b>	15	15	
<b>Maximum Learners per Intake:</b>	125	125	
<b>Duration (months)</b>	12	24	

### Target Learner Groups

This programme is for non-technical professionals and college graduates from non-technical disciplines in a cognate area at level 7 or 8 on the National Framework of Qualifications. This course will appeal to learners who wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. It will also appeal to technical and non-technical professionals who would like to upgrade their skills in this programme, helping them to progress faster in their employment or to apply the knowledge in their current role. Non-standard applications will be also considered on an individual basis.

### Brief Synopsis of the Programmes

This programme is a Level 8 Higher Diploma aimed at Level 8 graduates or mature applicants who wish to follow a career in data analytics. The programme will run both in part-time and full-time mode in order to cater to the different types of learners. The learners will have to attend lectures and tutorials in the classroom or online over the academic year, as well as to study independently. Learners will take modules that cover topics such as Statistics, Data Governance, Business Intelligence, Programming for Data Analytics, Databases and Machine Learning. An important component of the programme will be the Project module. The programme leads to an NFQ Level 8 academic award Higher Diploma in Science in Data Analytics awarded by QQI. Graduates of this programme may seek to continue studying within higher education or seek employment in the field of data analytics.

<b>Teaching and Learning Modes</b>	<ol style="list-style-type: none"> <li>Laboratory / Studio</li> <li>Lectures / Classes</li> <li>Tutorials</li> </ol>
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<b>Approved Countries</b>	Ireland
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**Physical Resource Requirements**

The programme requires appropriate learning spaces to facilitate the teaching, learning and assessment strategy of the programme. Learning spaces will include traditional classrooms, spaces for collaborative learning and access to appropriate technologies as required by individual module curriculum (e.g., development environments, cloud infrastructure, or similar products). Online learning resources are also provided, such as Moodle, to facilitate online/blended teaching, learning and assessment. Students are asked to bring their own devices to NCI. Resources can be secured within and by NCI for those without their own devices.

Learners will have access to appropriate personal and group study spaces as well as a range of learning, welfare and support services at the College Campus, including access to recreation and dining spaces. While in the main on-line learners may not require physical resources in the College Campus, these resources are also available to them if needed. The suite of study and welfare support services are also available online.

<b>Staff Profiles</b>	<b>Qualifications and Experience</b>	<b>WTE</b>
Lecturer	Lecturers with a PhD or Masters level qualification in computing and data analytics, or a related discipline with academic experience delivering modules in ICT level 8 on NFQ.	2
Programme Director	Programme Director who is responsible for the academic management of the programme and may also be a lecturer on the programme. The programme director will have at least a Masters or PhD qualification in computing or a related discipline.	1
Programme Coordinator	Programme Coordinator with experience in relationship management and programme coordination.	1

<b>Approved Centres</b>	<b>Centre</b>	<b>Minimum Number of Learners per Intake per Centre</b>	<b>Maximum Number of Learners per Intake per Centre</b>
	42522R National College of Ireland	15	250

<b>Additional Locations</b>	<b>Location Name</b>	<b>Minimum Enrolment per Annum</b>	<b>Maximum Enrolment per Annum</b>
	N/A		

<b>Learner Teacher Ratios</b>	<b>Learning Activity</b>	<b>Ratio</b>
	Lecture	1:60
	Tutorials/Labs	1:25

<b>Programme being replaced by this Programme</b>	<b>Prog Code</b>	<b>Programme Title</b>	<b>Validated</b>
	PG22525	Higher Diploma in Science in Data Analytics	20-Jul-16



## Embedded Programme

Validation Process: **Revalidation**

Code	Title	Award	Exit
PG24515	Certificate in Data Analytics	Certificate (Special Purpose Award at NFQ Level 8) 8S21400 30 credits	Yes

	Full Time	Part Time	Delivery Mode: full-time / part-time
Maximum Intakes per Annum:	0	0	Full Time, Part Time
Minimum Learners per Intake:	0	0	
Maximum Learners per Intake:	0	0	
Duration (months)	12	12	

### Target Learner Groups

This programme is aimed at learners enrolled on the principal programme who wish to exit prior to completion.

### Brief Synopsis of the Programmes

The Certificate in Data Analytics is an exit award embedded in the Higher Diploma in Science in Data Analytics that will allow learners to exit the principal programme prior to completion.

<b>Teaching and Learning Modes</b>	<ol style="list-style-type: none"> <li>Laboratory / Studio</li> <li>Lectures / Classes</li> <li>Tutorials</li> </ol>
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<b>Approved Countries</b>	Ireland
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### Physical Resource Requirements

The programme requires appropriate learning spaces to facilitate the teaching, learning and assessment strategy of the programme. Learning spaces will include traditional classrooms, spaces for collaborative learning and access to appropriate technologies as required by individual module curriculum (e.g., development environments, cloud infrastructure, or similar products). Online learning resources are also provided, such as Moodle, to facilitate online/blended teaching, learning and assessment. Students are asked to bring their own devices to NCI. Resources can be secured within and by NCI for those without their own devices.

Learners will have access to appropriate personal and group study spaces as well as a range of learning, welfare and support services at the College Campus, including access to recreation and dining spaces. While in the main on-line learners may not require physical resources in the College Campus, these resources are also available to them if needed. The suite of study and welfare support services are also available online.



Staff Profiles	Qualifications and Experience	WTE
Lecturer	Lecturers with a PhD or Masters level qualification in computing and data analytics, or a related discipline with academic experience delivering modules in ICT level 8 on NFQ.	2
Programme Director	Programme Director who is responsible for the academic management of the programme and may also be a lecturer on the programme. The programme director will have at least a Masters or PhD qualification in computing or a related discipline.	1
Programme Coordinator	Programme Coordinator with experience in relationship management and programme coordination.	1

Approved Centres	Centre	Minimum Number of Learners per Intake per Centre	Maximum Number of Learners per Intake per Centre
	42522R National College of Ireland	0	0

Additional Locations	Location Name	Minimum Enrolment per Annum	Maximum Enrolment per Annum
	N/A		

Learner Teacher Ratios	Learning Activity	Ratio
	Lectures	1:60
	Tutorials/Labs	1:25

Programme being replaced by this Programme	Prog Code	Programme Title	Validated
	PG22564	Certificate in Data Analytics	20-Jul-16



# Conditions of Validation of the Programmes Covered by this Certificate of Validation

## Part 1: Statutory Conditions of Validation

The statutory (section 45(3) of the 2012 Act) conditions of validation are that the provider of the programme shall:

1. Co-operate with and assist QQI in the performance of QQI's functions in so far as those functions relate to the functions of the provider,
2. Establish procedures which are fair and consistent for the assessment of enrolled learners to ensure the standards of knowledge, skill or competence determined by QQI under section 49 (1) are acquired, and where appropriate, demonstrated, by enrolled learners,
3. Continue to comply with section 65 of the 2012 Act in respect of arrangements for the protection of enrolled learners, if applicable, and
4. Provide to QQI such information as QQI may from time to time require for the purposes of the performance of its functions, including information in respect of completion rates.

## Part 2 Conditions of Validation Established by QQI Under section 45(4)(b) of the 2012 Act

### Part 2.1 Condition of Validation Concerning a Change in the QQI Award or Award Standard

1. Where QQI changes an award title, an award specification or an award standard that a programme depends upon, the provider shall not enrol any further learners on the affected programmes unless informed otherwise in writing by QQI (e.g. by the issue of a revised certificate of validation). The programme is considered validated for learners already enrolled on the affected programme.

### Part 2.2 Condition of Validation Concerning the Duration of Enrolment

1. The duration of enrolment is the interval during which learners may be enrolled on the validated programme.

Validation is determined by QQI for a specified number of years of enrolment appropriate to the particular programme as indicated on the certificate on validation subject to unit 9.2.1. It is a condition of validation that the programme does not enrol any new learners outside this interval. A typical duration would be five years.

If a provider wishes to continue to enrol learners to the programme beyond this interval the provider must arrange in good time for it to be validated again by QQI, or exceptionally the provider may apply for extension of the duration of enrolment (unit (14)). In this context the provider may apply for validation of the programme from first principles or, alternatively, the provider may avail of the process for revalidation (unit (13)) by QQI.

### Part 2.3 General Condition of Validation

The provider of the programme shall:

1. Ensure that the programme as implemented does not differ in a material way from the programme as validated; differing in a material way is defined as differing in any aspect of the programme or its implementation that was material to QQI's validation criteria.
2. Ensure that the programme is provided with the appropriate staff and physical resources as validated.
3. Implement in respect of the programme its written quality assurance procedures (as approved by QQI).
4. Make no significant change to the programme without the prior approval of QQI. (See unit (8)).
5. Unless otherwise agreed by QQI in writing, start implementing the programme as validated and enrol learners within 18 months of validation.
6. Continue in respect of the validated programme to comply with section 56 of the 2012 Act in respect of procedures for access, transfer and progression.
7. Implement the programme and procedures for assessment of learners in accordance with the Approved Programme Schedule and notify QQI in writing of any amendments to this arising from changes to the programme; see unit (9).
8. When advertising and promoting the programme and awards, use the programme title as validated, and the correct QQI award title(s), award type(s) and award class(es) indicating the level of the award(s) on the National Framework of Qualifications.



9. Adhere to QQI regulations and procedures for certification.

10. Notify QQI in writing without delay of: a. Any material change to the programme; a. Anything that impacts on the integrity or reputation of the programme or the corresponding QQI awards; b. Anything that infringes the conditions of validation; or c. Anything that would be likely to cause QQI to consider reviewing the validation.

11. Notify QQI in writing to determine the implications for the provider's validated programmes, where the provider is likely to, or planning to, merge (amalgamate) with another entity or to acquire, or be acquired by, another entity (see unit (12.5)) .

12. Report to QQI, when required or requested, on its implementation of the programme and compliance with the conditions of validation.

#### **Part 2.4 General Condition of Validation Arising from Specialised Validation Policy and Criteria**

1.

#### **Part 2.5 Special Conditions of Validation**

<b>Name of Provider:</b>		<b>National College of Ireland</b>												
<b>Programme Title</b>		Higher Diploma in Science in Data Analytics												
<b>Award Title</b>		Higher Diploma in Science in Data Analytics												
<b>Stage Exit Award Title<sup>3</sup></b>		Certificate in Data Analytics												
<b>Modes of Delivery (FT/PT):</b>		Full-Time & Part Time												
<b>Teaching and learning modalities</b>		Direct contact (face-to-face) via lectures and demonstrations, Synchronous On-line Learning/Blended												
<b>Class</b>	<b>NFQ level</b>	<b>EQF Level</b>	<b>Stage (1, 2, 3, 4, ..., or Award Stage):</b>	<b>NFQ Level</b>	<b>EQF Level</b>	<b>Credit (ECTS)</b>	<b>Date Effective</b>	<b>ISCED Subject code</b>						
Major	8	6	Award Stage	8	6	60	September 2021	0612						
<b>Module Title</b> (Up to 70 characters including spaces)		<b>Semester no where applicable. (Semester 1 or Semester2)</b>	<b>Module</b>		<b>Credit Number</b>	<b>Total Learner Effort Module (hours)</b>					<b>Allocation Of Marks (from the module assessment strategy)</b>			
			<b>Status</b>	<b>NFQ Level where specified</b>	<b>Credit Units</b> ECTS	<b>Total Hours</b>	<b>Contact Hours</b>	<b>eLearning</b>	<b>Hours of Independent Learning</b>	<b>Work-based learning effort</b>	<b>C.A. %</b>	<b>Supervised Project %</b>	<b>n %</b>	<b>Proctored practical demonstration</b>
Statistics I		1	M	8	5	125	36		89		40			60
Programming for Data Analytics		1	M	8	10	250	60		190		100			
Data Governance		1	M	8	5	125	36		89		100			
Statistics II		2	M	8	5	125	36		89		50			50
Databases for Analytics		2	M	8	10	250	60		190		50			50
Business Intelligence		2	M	8	5	125	36		89		100			
Machine Learning		3	M	8	10	250	60		190		100			
Project		3	M	8	10	250	36		214		100			
<b>Special Regulations: N/A.</b>														

<b>Name of Provider:</b>		<b>National College of Ireland</b>												
<b>Programme Title</b>		Higher Diploma in Science in Data Analytics												
<b>Award Title</b>		Higher Diploma in Science in Data Analytics												
<b>Stage Exit Award Title<sup>3</sup></b>		Certificate in Data Analytics												
<b>Modes of Delivery (FT/PT):</b>		Part-Time												
<b>Teaching and learning modalities</b>		Direct contact (face-to-face) via lectures and demonstrations, Synchronous On-line Learning/Blended												
Class	NFQ level	EQF Level	Stage (1, 2, 3, 4, ..., or Award Stage):	NFQ Level	EQF Level	Credit (ECTS)	Date Effective	ISCED Subject code						
Major	8	6	Award Stage	8	6	60	September 2021	0612						
Module Title (Up to 70 characters including spaces)	Semester no where applicable. (Semester 1 or Semester2)	Module		Credit Number	Total Learner Effort Module (hours)					Allocation Of Marks (from the module assessment strategy)				
		Status	NFQ Level where specified	Credit Units	Total Hours	Contact Hours	eLearning	Hours of Independent Learning	Work-based Learning	C.A. %	Supervised Project %	Proctored practical demonstration %	Proctored written exam %	
				ECTS										
Statistics I	1	M	8	5	125	36		89		40			60	
Programming for Data Analytics	1	M	8	10	250	60		190		100				
Statistics II	2	M	8	5	125	36		89		50			50	
Data Governance	2	M	8	5	125	36		89		100				
Business Intelligence	2	M	8	5	125	36		89		100				
Databases for Analytics	3	M	8	10	250	60		190		50			50	
Machine Learning	3	M	8	10	250	60		190		100				
Project	4	M	8	10	250	36		214		100				
<b>Special Regulations: N/A.</b>														



**PG24515 Certificate in Data Analytics**

Name of Provider		National College of Ireland												
Programme Title		PG24515 Certificate in Data Analytics												
Award Title		Certificate							Exit Award		Yes			
Teaching and learning modalities		Lectures / Classes; Tutorials; Laboratory / Studio												
Delivery Modes	Award Class	Award NFQ Level	Award EQF Level	Stage	Stage NFQ Level	Stage Credits	First Intake		ISCED Code					
Both	Special Purpose	8	6	Award Stage	6	30	01 Sep 2021		06.1.2					
Module				Total Student Effort Module (Hours)						Allocation of Marks				
Title		Semester	Status	Credit	Total Hours	Class Contact Hours	Direct e-learning	Hours of independent learning	Work-based learning efforts	C.A. %	Project %	Skills demonstration %	Exam %	Workbased %
Statistics I		1	M	5	125	36	0	89	0	40	0	0	60	0
Programming for Data Analytics		1	M	10	250	60	0	190	0	100	0	0	0	0
Data Governance		1	M	5	125	36	0	89	0	100	0	0	0	0
Statistics II		2	M	5	125	36	0	89	0	50	0	0	50	0
Business Intelligence		2	M	5	125	36	0	89	0	100	0	0	0	0