

# Independent Evaluation Report on an Application for Validation of a Programme of Education and Training

## Part 1. Provider details

Provider name	CCT College Dublin
Date of site visit	29 Jul 2020
Date of report	

## Section A. Overall recommendations

Principal	Title	Higher Diploma in Science in Data Analytics for Business
programme	Award	Higher Diploma in Science
	Credit	60
	Recommendation	
	Satisfactory OR	Satisfactory subject to proposed conditions
	Satisfactory subject to	
	proposed conditions	
	OR Not Satisfactory	

## Section B. Expert Panel

Name	Role	Affiliation
Mr. David Denieffe	Chair	Registrar, Institute of Technology Carlow
Prof. Martin McKinney	Subject Matter Expert	Professor Emeritus of Computing, UIster University
Dr. Donna O'Shea	Subject Matter Expert	Chair of Cybersecurity & Acting Head of Department of Computer Science CIT
Mr. Niall Larkin	Subject Matter Expert	Accelerator Programmes Leader NDRC (Digital Hub)
Dr. Catherine Peck	Secretary	Education Consultant
Ms. Teena Choudhary	Learner Representative	University of Limerick

## Section C. Principal Programme

Names of centre(s) where the programme(s) is to be provided	Maximum number of learners (FT)	Maximum number of learners (PT)
CCT College Dublin	120	80

Proposed Duration and Enrolment					
	First Intake	Duration	Intakes per Annum	Enrolment i.e per Int	
	Date		Maximum	Minimum	Maximum
Full-Time	01 Sep 2020	2 semesters	2	8	60
Part-Time	01 Sep 2020	3 semesters	2	8	40
Intake Schedule e.g. January					
September					

#### Panel Commentary on proposed enrolment:

With regard to proposed enrolment, the Panel has identified a recommendation for CCT. This is that CCT should continue its practice of keeping full-time and part-time cohorts separate in the virtual environment. However, CCT might consider how efficiencies could be maximised with regard to different cohorts from different programmes with shared modules availing of the same asynchronous, pre-recorded lecture content. The semester 1 and 3 schedules could also be reviewed to optimise and coordinate deliveries.

## Brief synopsis of the programme (e.g. who it is for, what is it for, what is involved for learners, what it leads to.)

The Higher Diploma in Science in Data Analytics for Business (60 ECTS) is designed for domestic and international learners seeking to develop their knowledge, skills and competence in the area of Data Analytics. This programme is designed to produce graduates with the attributes required of a Data Analyst today, and with the ability to continue to develop knowledge, skill and competence to remain competitive and employable in a rapidly changing and expanding sector of the economy.

Learners will be provided with the opportunity to assimilate knowledge within an industry focused learning environment. This focus is maintained through the use of practical sessions in labs and workshops. Graduates will be qualified to assume entry level industry roles and/or to further advance their education.

#### **Target learner groups**

The programme is aimed at full time, part time, domestic and international learners. Primarily the programme is targeted at graduates. All applicants must have qualifications or experience which evidences attainment equivalent to a level 7 ordinary degree along with proficiency in ICT and mathematical foundations and techniques.

This programme is designed to include learners in a related industry and those seeking employment as a data analyst or in a role that involves data analysis. It is also for those aspiring to progress their academic experience to a Level 8 NFQ award, specifically in the area of Data Analytics.

Approved countries for provision	Ireland
Delivery mode: Full-time/Part-time	Full time & Part time including blended learning

The teaching and learning modalities	
Lecture, Webinar, lab (physical and virtual), tutorial, workshop, group work.	

Summary of specifications for teaching staff		
Role	Profile	WTE
Academic and Professional:	MSc required. However NFQ Level 8 in Computer Science, Software Development, Software Engineering or equivalent is acceptable in cases where significant industrial experience is evident. Industry experience will be essential for those who do not have a postgraduate award.	2
Software Development and Associated Experience:	A minimum of 1 year experience required, 3 years of experience preferred.	2
Pedagogical:	Teaching experience is desired including experience of blended learning programmes. Completion of postgraduate CPD/Certificate in Teaching and Learning or similar preferred. Where experience in blended learning is not present, training and support will be provided.	2

Learning Activity	Ratio of learners to teaching staff
Laboratory work / Tutorials (inc. online)/ Workshops	1:25
Lectures / Demonstrations / webinars	1:50

#### Panel Commentary on programme outline and staffing:

With regard to staffing, the Panel is generally satisfied that CCT has appropriate processes in place for the recruitment and management of appropriately qualified academic staff, and that the minimum specifications listed are appropriate for the programme outlined.

The Panel has identified one relevant condition of validation for CCT. This is that the programme document must contain information pertaining to the appropriate provision of technical support for learners outside of class contact hours, and that the allocation of human or physical resources to ensure this must be specified in the programme document.

Programmes being replaced (applicable to applications for revalidation)		
Code	Title	Last enrolment
		date
N/A	N/A	N/A

## Section D. Other noteworthy features of the application

Not Applicable

### Part 1A Evaluation of the Case for an Extension of the Approved Scope of Provision

(where applicable). Having examined appropriate QA / Governance procedures, comment on the case for extending the applicant's Approved Scope of Provision to enable provision of this programme. (Especially relevant for move to online delivery / assessment)

Not Applicable

## Part 2. Evaluation against the validation criteria

#### Criterion 1. The provider is eligible to apply for validation of the programme

- a) The provider meets the prerequisites (section 44(7) of the 2012 Act) to apply for validation of the programme.
- b) The application for validation is signed by the provider's chief executive (or equivalent) who confirms that the information provided is truthful and that all the applicable criteria have been addressed.
- c) The provider has declared that their programme complies with applicable statutory, regulatory and professional body requirements.<sup>1</sup>

Satisfactory? (yes, no, partially)	Comment
(yes, no, partially) Yes	The Panel is satisfied that the provider is eligible to apply for validation of the programme CCT has complied with section 44(7) of the 2012 Act. Specifically, CCT has had its procedures for quality assurance (QA) approved by QQI. The provider has submitted procedures for access, transfer and progression, which are discussed under Criterion 4 in this report. A provider authorisation/declaration accompanying the application for validation has been signed by the College President. This declaration verifies the accuracy of the information provided, as well as providing an assurance that resources are in place to deliver the programme. The declaration further states that the proposed programme complies with applicable statutory, regulatory and professional body requirements
	applicable statutory, regulatory and professional body requirements.
	(yes, no, partially)

<sup>&</sup>lt;sup>1</sup>This criterion is to ensure the programme can actually be provided and will not be halted on account of breach of the law. The declaration is sought to ensure this is not overlooked but QQI is not responsible for verifying this declaration of enforcing such requirements.

# Criterion 2. The programme objectives and outcomes are clear and consistent with the QQI awards sought

- a) The programme aims and objectives are expressed plainly.
- b) A QQI award is specified for those who complete the programme.
  - (i) Where applicable, a QQI award is specified for each embedded programme.
- c) There is a satisfactory rationale for the choice of QQI award(s).
- d) The award title(s) is consistent with unit 3.1 of QQI's Policy and Criteria for Making Awards.
- e) The award title(s) is otherwise legitimate for example it must comply with applicable statutory, regulatory and professional body requirements.
- f) The programme title and any embedded programme titles are
  - (i) Consistent with the title of the QQI award sought.
  - (ii) Clear, accurate, succinct and fit for the purpose of informing prospective learners and other stakeholders.
- g) For each programme and embedded programme
  - (i) The **minimum intended programme learning outcomes** and any other educational or training objectives of the programme are explicitly specified.<sup>2</sup>
  - (ii) The minimum intended programme learning outcomes to qualify for the QQI award sought are **consistent with** the relevant QQI awards standards.
- h) Where applicable, the **minimum intended module learning outcomes** are explicitly specified for each of the programme's modules.
- i) Any QQI minor awards sought for those who complete the modules are specified, where applicable.

For each minor award specified, the minimum intended module learning outcomes to qualify for the award are consistent with relevant QQI minor awards standards.<sup>3</sup>

Programme	Satisfactory?	Comment
Higher Diploma in Science in Data Analytics for Business	Partially	The Panel is partially satisfied that provider's application meets this criterion.
		The Panel was of the view that the programme's aims and objectives were expressed plainly. However the Panel held concerns regarding the alignment of the minimum intended module learning outcomes (MIMLOs) to the minimum intended programme learning outcomes (MIPLOs), and the extent to which some of the MIMLOs were appropriate to achievement of an NFQ Level 8 award. The Panel has recommended special conditions of validation pertaining to this. The Panel is satisfied that the programme title is fit for the purpose of informing prospective learners and other stakeholders.

<sup>&</sup>lt;sup>2</sup> Other programme objectives, for example, may be to meet the educational or training requirements of a statutory, regulatory or professional body.

<sup>&</sup>lt;sup>3</sup> Not all modules will warrant minor awards. Minor awards feature strongly in the QQI common awards system however further education and training awards may be made outside this system.

### Criterion 3. The programme concept, implementation strategy, and its interpretation of QQI awards standards are well informed and soundly based (considering social, cultural, educational, professional and employment objectives)

international scientific and academic communities, professional bodies and e	utcomes has sought ites, teachers,		
lecturers, education and training institutions, employers, statutory bodies, regulatory bodies, the international scientific and academic communities, professional bodies and equivalent associations, trades unions, and social and community representatives. <sup>4</sup>			
b) The interpretation of awards standards has been adequately informed and researched;			
considering the programme aims and objectives and minimum intended programme (and, where applicable, modular) learning outcomes.			
(i) There is a satisfactory rationale for providing the programme.			
(ii) The proposed programme compares favourably with existing related	• • •		
programmes in Ireland and beyond. Comparators should be as close			
(iii) There is support for the introduction of the programme (such as from professional, regulatory or statutory bodies).	n employers, or		
(iv) There is evidence <sup>5</sup> of learner demand for the programme.	1 16		
<ul> <li>(v) There is evidence of employment opportunities for graduates where</li> <li>(vi) The programme meets genuine education and training needs.<sup>7</sup></li> </ul>	relevant <sup>o</sup> .		
c) There are mechanisms to keep the programme updated in consultation with i	nternal and external		
stakeholders.			
d) Employers and practitioners in the cases of vocational and professional award			
systematically involved in the programme design where the programme is voo	cationally or		
professionally oriented. e) The programme satisfies any validation-related criteria attaching to the applic	sahle awards		
standards and QQI awards specifications.			
Programme Satisfactory? Comment			
Higher Partially The Panel is partially satisfied that provider's	application meets		
Diploma in Science in this criterion.			
Data Analytics			
	3.3 of its documentation. This includes reference to		
	es reference to		
3.3 of its documentation. This includ	staff. Section 3.4		
3.3 of its documentation. This includ consultation with industry, faculty and	staff. Section 3.4 luates aspiring to		
3.3 of its documentation. This includ consultation with industry, faculty and identifies the target learners as " grad progress their academic experience to a Learner	staff. Section 3.4 luates aspiring to evel 8 NFQ award		
3.3 of its documentation. This includ consultation with industry, faculty and identifies the target learners as " grad progress their academic experience to a Le specifically in the area of Data Analytics.", but	staff. Section 3.4 luates aspiring to evel 8 NFQ award It does not identify		
3.3 of its documentation. This include consultation with industry, faculty and identifies the target learners as " grade progress their academic experience to a Leas specifically in the area of Data Analytics.", but the relevant cognate disciplines from which	staff. Section 3.4 luates aspiring to evel 8 NFQ award at does not identify learners would be		
3.3 of its documentation. This include consultation with industry, faculty and identifies the target learners as " grade progress their academic experience to a Leas specifically in the area of Data Analytics.", but the relevant cognate disciplines from which able to progress (N.B. This is subsequently s	staff. Section 3.4 luates aspiring to evel 8 NFQ award at does not identify learners would be		
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<sup>&</sup>lt;sup>4</sup> Awards standards however detailed rely on various communities for their interpretation. This consultation is necessary if the programme is to enable learners to achieve the standard in its fullest sense.

<sup>&</sup>lt;sup>5</sup> This might be predictive or indirect.

<sup>&</sup>lt;sup>6</sup> It is essential to involve employers in the programme development and review process when the programme is vocationally or professionally oriented.

<sup>&</sup>lt;sup>7</sup> There is clear evidence that the programme meets the **target learners'** education and training needs and that there is a clear demand for the programme.

graduate outcomes. For example, in Section 3.4 the programme document states: <i>"This targeted programme is designed to produce graduates with the attributes required of a Data Analyst"</i> . The Panel was of the view that the graduate profile for the programme needed to be more clearly specified, and to identify particular roles graduates would be qualified to fulfil. The Panel has identified a recommended special condition of validation for CCT pertaining to this.
Furthermore, the Panel was not satisfied that CCT's application reflected significant engagement between the programme team and industry during the development phase. The Panel acknowledges a number of letters indicating high level support for the programme from employers, which were provided to the Panel on the day of the virtual site visit. However, both the letters and the overall consultation process with industry and employers outlined by CCT's representatives were broad in focus. The Panel was of the view that the application therefore did not reflect a meaningful contribution by employers or practitioners to the development of the programme rationale or the design of the programme curriculum. The Panel has identified a recommendation for CCT pertaining to this, to ensure the systematic involvement of employers in programme design is effectively presented in future submissions for validation.

#### Criterion 4. The programme's access, transfer and progression arrangements are satisfactory

- a) The information about the programme as well as its procedures for access, transfer and progression are consistent with the procedures described in QQI's policy and criteria for access, transfer and progression in relation to learners for providers of further and higher education and training. Each of its programme-specific criteria is individually and explicitly satisfied<sup>8</sup>.
- b) Programme information for learners is provided in plain language. This details what the programme expects of learners and what learners can expect of the programme and that there are procedures to ensure its availability in a range of accessible formats.
- c) If the programme leads to a higher education and training award and its duration is designed for native English speakers, then the level of proficiency in English language must be greater or equal to B2+ in the Common European Framework of Reference for Languages (CEFRL<sup>9</sup>) in order to enable learners to reach the required standard for the QQI award.
- d) The programme specifies the learning (knowledge, skill and competence) that target learners are expected to have achieved before they are enrolled in the programme and any other assumptions about enrolled learners (programme participants).
- e) The programme includes suitable procedures and criteria for the recognition of prior learning for the purposes of access and, where appropriate, for advanced entry to the programme and for exemptions.
- f) The programme title (the title used to refer to the programme):-
  - (i) Reflects the core *intended programme learning outcomes*, and is consistent with the standards and purposes of the QQI awards to which it leads, the award title(s) and their class(es).
  - (ii) Is learner focused and meaningful to the learners;
  - (iii) Has long-lasting significance.
- g) The programme title is otherwise legitimate; for example, it must comply with applicable statutory, regulatory and professional body requirements.

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Programme	Satisfactory?	Comment
Higher Diploma in Science in	Partially	The Panel is partially satisfied that provider's
Data Analytics for Business		application meets this criterion.
		CCT has provided information about the programme and procedures for access, transfer and progression that are consistent with QQI's policy in this area. However, the Panel has identified a recommended special condition of validation pertaining to the precise knowledge, skills and competences that learners were expected to have achieved before enrolment and the programme specific procedures for recognition of prior learning.
		Section 4.2.2 of the programme document outlines that direct entry requires applicants to

<sup>&</sup>lt;sup>8</sup> Each of the detailed criteria set out in the Policy and criteria for access, transfer and progression in relation to learners for providers of further and higher education and training must be addressed in the provider's evaluation report. The detailed criteria are (QQI, restated 2015) arranged under the headings

- Progression and transfer routes
- Entry arrangements
- Information provision

<sup>&</sup>lt;sup>9</sup> http://www.coe.int/t/dg4/linguistic/Source/Framework\_EN.pdf (accessed 26/09/2015)

evidence discipline specific expertise, including mathematical proficiency, to a minimum of NFQ Level 7. Specifically, learners are required to have an NFQ Level 7 degree in a cognate discipline to ICT or an NFQ Level 7 degree in a non-cognate discipline in addition to "evidence of proficiency in mathematical foundations and techniques". The Panel was of the view that CCT needed to specify within the application what level of mathematical competence would be required of applicants, and include a list of suitable and applicable cognate disciplines for the programme.
The programme document notes that RPL applications will be considered in accordance with the institutional RPL Policy. However, as discussions during the virtual site visit indicated that RPL applications would be dealt with on a case by case basis, the Panel was of the view that the process for this should also be outlined within the application.

#### Criterion 5. The programme's written curriculum is well structured and fit-for-purpose

		y structured and coherently oriented towards the achievement by		
lea	learners of its intended programme learning outcomes. The programme (including any stages and			
	modules) is integrated in all its dimensions.			
	In so far as it is feasible the programme provides choice to enrolled learners so that they may align			
	their learning opportunities towards their individual educational and training needs.			
	-	rogramme learning outcomes.		
		ses of each of the programme's elements are clear to learners and to the		
	vider's staff.			
		red and scheduled realistically based on sound educational and training		
-	nciples <sup>10</sup> .	nensively and systematically documented.		
	-	e programme is consistent with the difference between the entry		
		tended programme learning outcomes.		
		ch module is consistent with the difference between the module entry		
		tended module learning outcomes.		
		placement and work-based phases are provided with the same rigour		
	l attentiveness as othe			
j) The	programme duration	(expressed in terms of time from initial enrolment to completion) and its		
full	time equivalent contac	t time (expressed in hours) are consistent with the difference between		
the	minimum entry standa	ard and award standard and with the credit allocation. <sup>11</sup>		
_				
Programme	Satisfactory?	Comment		
Higher Diplo				
		The Panel is not satisfied that the provider's application		
in Science in		The Panel is not satisfied that the provider's application meets this criterion.		
Data Analyt	cs			
	cs	meets this criterion.		
Data Analyt	cs	meets this criterion. The Panel noted overall deficiencies in the module		
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Data Analyt	cs	<ul> <li>meets this criterion.</li> <li>The Panel noted overall deficiencies in the module documentation that needed to be addressed. These pertained to the nature, articulation and overall alignment of the MIMLOs, the module specific teaching, learning and assessment strategies and the presentation of reading lists. The Panel identified recommended special conditions of validation pertaining to these issues.</li> <li>The Panel held concerns that the programme as</li> </ul>		
Data Analyt	cs	meets this criterion. The Panel noted overall deficiencies in the module documentation that needed to be addressed. These pertained to the nature, articulation and overall alignment of the MIMLOs, the module specific teaching, learning and assessment strategies and the presentation of reading lists. The Panel identified recommended special conditions of validation pertaining to these issues. The Panel held concerns that the programme as documented would not provide learners with the essential		
Data Analyt	cs	meets this criterion. The Panel noted overall deficiencies in the module documentation that needed to be addressed. These pertained to the nature, articulation and overall alignment of the MIMLOs, the module specific teaching, learning and assessment strategies and the presentation of reading lists. The Panel identified recommended special conditions of validation pertaining to these issues. The Panel held concerns that the programme as documented would not provide learners with the essential programming skills that would allow them to convert into the		
Data Analyt	cs	<ul> <li>meets this criterion.</li> <li>The Panel noted overall deficiencies in the module documentation that needed to be addressed. These pertained to the nature, articulation and overall alignment of the MIMLOs, the module specific teaching, learning and assessment strategies and the presentation of reading lists. The Panel identified recommended special conditions of validation pertaining to these issues.</li> <li>The Panel held concerns that the programme as documented would not provide learners with the essential programming skills that would allow them to convert into the field. The omission of this skill from the written curriculum was a</li> </ul>		
Data Analyt	cs	<ul> <li>meets this criterion.</li> <li>The Panel noted overall deficiencies in the module documentation that needed to be addressed. These pertained to the nature, articulation and overall alignment of the MIMLOs, the module specific teaching, learning and assessment strategies and the presentation of reading lists. The Panel identified recommended special conditions of validation pertaining to these issues.</li> <li>The Panel held concerns that the programme as documented would not provide learners with the essential programming skills that would allow them to convert into the field. The omission of this skill from the written curriculum was a fundamental design issue that should be addressed in the revised</li> </ul>		
Data Analyt	cs	<ul> <li>meets this criterion.</li> <li>The Panel noted overall deficiencies in the module documentation that needed to be addressed. These pertained to the nature, articulation and overall alignment of the MIMLOs, the module specific teaching, learning and assessment strategies and the presentation of reading lists. The Panel identified recommended special conditions of validation pertaining to these issues.</li> <li>The Panel held concerns that the programme as documented would not provide learners with the essential programming skills that would allow them to convert into the field. The omission of this skill from the written curriculum was a</li> </ul>		

<sup>&</sup>lt;sup>10</sup> This applies recursively to each and every element of the programme from enrolment through to completion.

In the case of a modular programme, the pool of modules and learning pathway constraints (such as any prerequisite and co-requisite modules) is explicit and appropriate to the intended programme learning outcomes.

<sup>&</sup>lt;sup>11</sup> If the duration is variable, for example, when advanced entry is available, this should be explained and justified

The Panel held further concerns that the MIPLOs and MIMLOs/indicative module content were not accurately mapped. The Panel was of the view that either the programme needed to be revised to ensure that students would achieve the MIPLOs, or that the MIPLOs needed to be revised to reflect a highly theoretical programme with limited learning of practical skills.
There was concern about the gap between the Machine Learning Principles for Big Data and Machine Learning for Business modules. The Panel expressed a view that Machine Learning could be covered within one module rather than two, given that the module was 10 ECTS.
The Panel also noted that the MIPLOs did not reflect the project management or research elements of the programme indicated with Module 1. Overall, the Panel felt that the MIPLOs could benefit from being revised, with a view to being articulated in more specific and precise terms.
Notes on Individual Modules:
Module 2: The Panel noted that the aims of this module needed to be more clearly identified, and that MIMLO 2 could be reformulated to a more generic demonstration of learning associated with inferential statistics.
Module 4: The Panel noted that the module aim needed to clearly indicate whether the module was solely theoretical or also practical. The Panel was of the view that the module as presented was generic Machine Learning and therefore did not warrant the inclusion of 'Big Data' in the title. Section 7.4.4 of the programme document makes reference to a number of modules that do not exist.

#### Criterion 6. There are sufficient qualified and capable programme staff available to implement the programme as planned

a)	The specification of t	he programme's	s staffing requirements (staff required as part of the
	programme and intri	nsic to it) is prec	ise, and rigorous and consistent with the programme and its
	defined purpose. The specifications include professional and educational qualifications, licences-to		
	practise where applic	cable, experience	e and the staff/learner ratio requirements. See also criterion
	12 c).		
b)	The programme has	an identified cor	nplement of staff <sup>12</sup> (or potential staff) who are available,
	qualified and capable	e to provide the	specified programme in the context of their existing
	commitments.		
c)		-	ff (or potential staff) (those who support learning including
			lemonstrated to be competent to enable learners to achieve
		-	tcomes and to assess learners' achievements as required.
d)	-		prmance of the programme's staff to be managed to ensure
->			les and there are staff development <sup>13</sup> opportunities <sup>14</sup> .
e)			me staff performance to be reviewed and there are
f)			oment and for addressing underperformance. ded by staff not already in post there are arrangements to
')			enrol learners unless a complement of staff meeting the
	specifications is in po		en oneumers amess a complement of start meeting the
	specifications is in po		
Prograi	· · ·	1	Comment
<b>Progra</b> i Higher	· · ·	Satisfactory? Yes	
Higher	nme	Satisfactory?	The Panel is satisfied that the provider's application
Higher	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion.
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion.
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of appropriately qualified staff with discipline specific
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of appropriately qualified staff with discipline specific expertise are already in place at the centre to facilitate
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of appropriately qualified staff with discipline specific
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of appropriately qualified staff with discipline specific expertise are already in place at the centre to facilitate delivery of the proposed programme.
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of appropriately qualified staff with discipline specific expertise are already in place at the centre to facilitate delivery of the proposed programme. Discussions during the site visit indicated that CCT staff
Higher in Data	<b>mme</b> Diploma in Science Analytics for	Satisfactory?	The Panel is satisfied that the provider's application meets this criterion. Programme staffing requirements are specified within the programme documentation. As CCT has a history of delivering programmes in the domain, a complement of appropriately qualified staff with discipline specific expertise are already in place at the centre to facilitate delivery of the proposed programme.

by the provider.

<sup>&</sup>lt;sup>12</sup> Staff here means natural persons required as part of the programme and accountable (directly or indirectly) to the programme's provider, it may for example, include contracted trainers and workplace supervisors. <sup>13</sup> Development here is for the purpose of ensuring staff remain up-to-date on the discipline itself, on teaching methods or on other relevant skills or knowledge, to the extent that this is necessary to ensure an adequate standard of teaching.

<sup>&</sup>lt;sup>14</sup> Professional or vocational education and training requires that teaching staff's professional/vocation knowledge is up to date. Being qualified in a discipline does not necessarily mean that a person is currently competent in that discipline. Therefore, performance management and development of professional and vocational staff needs to focus on professional/vocational competence as well as pedagogical competence. Professional development may include placement in industry, for example. In regulated professions it would be expected that there are a suitable number of registered practitioners involved.

#### Criterion 7. There are sufficient physical resources to implement the programme as planned

	·····	···· ··· ··· ··· ··· ··· ··· ··· ··· ·		
as part of the prog programme, its def d).	,			
	supported physical resources) that are available in the context of existing commitments on these			
health, wellbei	<ul> <li>(i) suitable premises and accommodation for the learning and human needs (comfort, safety, health, wellbeing) of learners (this applies to all of the programme's learning environments including the workplace learning environment)</li> </ul>			
(ii) suitable inform virtual learning	nation technology g environments pr	and resources (including educational technology and any ovided)		
	list equipment (e.	(including software) for teaching, learning and assessment .g. kitchen, laboratory, workshop, studio) – if applicable		
(vi) administrative	support			
(vii) company place c) If versions of the pi		os – if applicable ovided in parallel at more than one location each		
		insitive validation criteria for each location (for example		
staffing, resources				
		ramme. It should address		
(i) Planned intake				
e) The programme inc	cludes controls to	the five years based on the planned intake. ensure entitlement to use the property (including intellectual guipment) required.		
Programme	Satisfactory?	Comment		
Higher Diploma in Science in Data Analytics for Business	Partially	The Panel is partially satisfied that provider's application meets this criterion.		
		CCT operates from owned premises in Dublin with capacity to facilitate the projected number of learner enrolments. However, given that the programme is proposed for delivery in blended learning mode, the Panel were of the view that resources specific to this aspect of the programme needed to be clearly identified in the application.		

Section 4.2.2 of the programme document specifies that applicants will be required to have access to the internet and a laptop or desktop PC with a minimum recommended specification of Windows OS with a minimum RAM Memory of 8GB DDR4 RAM and a basic processor Intel i3 (7<sup>th</sup> Gen and above) and a dedicated graphics card. CCT states that this specification will be published to potential learners and kept under review over the life of the programme.

	Following discussions with the provider during the virtual site visit, the Panel has identified a recommended special condition of validation. This is that the programme documents specify the human and physical resources allocated by CCT to ensure the provision of technical support for staff and learners, including support outside of class contact hours. The programme document should also include further details pertaining to the appropriate access to software, hardware and facilities required by both staff and learners working in the online environment.
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## Criterion 8. The learning environment is consistent with the needs of the programme's learners

<ul> <li>a) The programme's physical, social, cultural and intellectual environment (recognising that the environment may, for example, be partly virtual or involve the workplace) including resources and support systems are consistent with the intended programme learning outcomes.</li> <li>b) Learners can interact with, and are supported by, others in the programme's learning environments including peer learners, teachers, and where applicable supervisors, practitioners and mentors.</li> <li>c) The programme includes arrangements to ensure that the parts of the programme that occur in the workplace are subject to the same rigours as any other part of the programme while having regard to the different nature of the workplace.</li> </ul>		
Programme	Satisfactory?	Comment
Higher Diploma in Science in Data Analytics for Business	Yes	The Panel is satisfied that the provider's application meets this criterion. CCT is a well-established provider with a strong culture of learner-centeredness. The College has a stated commitment to the development of learners' transversal skills and to facilitating a supportive environment conducive to social learning. There are no work placements within the proposed programme.

#### Criterion 9. There are sound teaching and learning strategies

- a) The teaching strategies support achievement of the intended programme/module learning outcomes.
- b) The programme provides authentic learning opportunities to enable learners to achieve the intended programme learning outcomes.
- c) The programme enables enrolled learners to attain (if reasonably diligent) the minimum intended programme learning outcomes reliably and efficiently (in terms of overall learner effort and a reasonably balanced workload).
- **d)** Learning is monitored/supervised.
- **e)** Individualised guidance, support and timely formative feedback is regularly provided to enrolled learners as they progress within the programme.

Programme	Satisfactory?	Comment
Higher Diploma in Science	Partially	The Panel is not satisfied that the provider's
in Data Analytics for Business		application meets this criterion.
		The Panel held concerns that the Programme's Teaching and Learning (including Formative Assessment Strategy was highly generic, and did not sufficiently reflect explicit consideration of how the blended delivery mode would impact practice in this area. Within the module documentation, learning and teaching strategies were also generic and not specific to the module itself.
		During the virtual site visit, CCT representatives outlined that within modules up to 10 hours on campus learning would be typical, using a flipped classroom approach that drew upon provision of asynchronous learning materials. Synchronous online teaching sessions would be dynamic, and include elements of co-teaching. Student engagement in online learning is closely monitored, and acts as a flag within the College's broader retention strategy.
		The Panel has identified recommended special conditions of validation pertaining to this criterion. These require CCT to ensure the documented strategies are programme and module specific, and clearly indicative of how achievement of the intended programme and module learning outcomes will be achieved.

#### Criterion 10. There are sound assessment strategies

- a) All assessment is undertaken consistently with *Assessment Guidelines, Conventions and Protocols* for Programmes Leading to QQI Awards<sup>15</sup>
- b) The programme's assessment procedures interface effectively with the provider's QQI approved quality assurance procedures.
- c) The programme includes specific procedures that are fair and consistent for the assessment of enrolled learners to ensure the minimum intended programme/module learning outcomes are acquired by all who successfully complete the programme.<sup>16</sup>
- d) The programme includes formative assessment to support learning.
- e) There is a satisfactory written **programme assessment strategy** for the programme as a whole and there are satisfactory module assessment strategies for any of its constituent modules.<sup>17</sup>
- f) Sample assessment instruments, tasks, marking schemes and related evidence have been provided for each award-stage assessment and indicate that the assessment is likely to be valid and reliable.
- g) There are sound procedures for the moderation of summative assessment results.
- h) The provider only puts forward an enrolled learner for certification for a particular award for which a programme has been validated if they have been specifically assessed against the standard for that award.<sup>18</sup>

Programme	Satisfactory?	Comment
Higher Diploma in Science in Data	Partially	The Panel is partially satisfied that the provider's application meets this criterion.
Analytics for Business		The Panel held concerns that the overall assessment strategy presented within the programme document was insufficiently detailed. Further, the module documentation did not make clear how module assessments were aligned to (and would demonstrate achievement of) the MIMLOs. Reassessment strategies were not clearly represented. Therefore, the Panel were unable to make an adequate evaluation of the assessment strategy in terms of how appropriate sample assessment instruments were or how suitable the overall assessment schedule was.
		During the virtual site visit, CCT representatives discussed the integrated approach to assessment planned for the programme with the Panel. Discussion also explored how academic integrity was supported at CCT and what processes were in place at the College to prevent and detect plagiarism. Following these discussions, the Panel identified recommended special conditions of validation and a further recommendation for CCT pertaining to this criterion.

<sup>&</sup>lt;sup>15</sup> See the section on transitional arrangements.

<sup>&</sup>lt;sup>16</sup> This assumes the minimum intended programme/module learning outcomes are consistent with the applicable awards standards.

<sup>&</sup>lt;sup>17</sup> The programme assessment strategy is addressed in the Assessment Guidelines, Conventions and Protocols for Programmes Leading to QQI Awards. See the section on transitional arrangements.

<sup>&</sup>lt;sup>18</sup> If the award is a QQI CAS compound award it is not necessarily sufficient that the learner has achieved all the components specified in the certification requirements unless at least one of those components is a capstone component (i.e. designed to test the compound learning outcomes).

#### Criterion 11. Learners enrolled on the programme are well informed, guided and cared for

Criterion	11. Learners en	irolled on the programme are well informed, guided and cared for			
		ents to ensure that each enrolled learner is fully informed in a timely manner ne including the schedule of activities and assessments.			
b)	Information is provid	ded about learner supports that are available to learners enrolled on the			
c)		is provided to learners enrolled on the programme about any programme-			
		complaints procedures. modular, it includes arrangements for the provision of effective guidance			
		on the selection of appropriate learning pathways.			
	The programme takes into account and accommodates to the differences between enrolled				
	learners, for example, in terms of their prior learning, maturity, and capabilities.				
-	There are arrangements to ensure that learners enrolled on the programme are supervised and				
		rt and due care is targeted at those who need it.			
	needs.	vides supports for enrolled learners who have special education and training			
		kes reasonable accommodations for learners with disabilities <sup>19</sup> .			
		ms to enrol international students it complies with the Code of Practice for			
	Provision of Progran	nmes to International Students <sup>20</sup> and there are appropriate in-service supports			
		ish language, learning skills, information technology skills and such like, to			
	address the particula	ar needs of international learners and enable such learners to successfully			
	participate in the pro				
		arners will be well cared for and safe while participating in the programme,			
		ovider's premises or those of any collaborators involved in provision, the			
		ons of provision including any workplace locations or practice-placement			
	locations). me Satisfactory?	Comment			
Program Higher	Partially	The Panel is partially satisfied that the provider's application			
Diploma					
Science i		meets this criterion.			
Data		CCT is a well-established provider, and offers a range of supports			
Analytics		for learners. The College appointed a Student Success Lead in			
for					
Business		2019, and has retention and early warning strategies			
		implemented across its programmes. Students have access to			
		group study spaces, and benefit from library services. These			
		include a range of online and on campus classes in areas including			
		academic integrity, academic writing, exam preparation and			
		dissertation planning. Information about these and other services			
		is communicated to learners via meetings, college publications,			
		student notices and within lectures. Reasonable			
		accommodations are made for learners with disabilities, and			
		there is a positive disposition within CCT toward facilitating a			
		diverse and inclusive learning environment. A careers service as			
		well as academic support and counselling is also available.			

<sup>&</sup>lt;sup>19</sup> For more information on making reasonable accommodations see www.AHEAD.ie and QQI's Policies, Actions and Procedures for Access, Transfer and Progression for Learners (QQI, restated 2015).

<sup>&</sup>lt;sup>20</sup> See Code of Practice for Provision of Programmes to International Students (QQI, 2015)

	However, the Panel notes that it has identified recommended special conditions of validation that require CCT to provide more information on aspects of this criterion within the programme document. These pertain to the guidance and support mechanisms that will allow prospective learners to make an informed choice of programme, the blended delivery mode, and the allocation of resources for technical support and infrastructure requirements.
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#### Criterion 12. The programme is well managed

- a) The programme includes intrinsic governance, quality assurance, learner assessment, and access, transfer and progression procedures that functionally interface with the provider's general or institutional procedures.
- b) The programme interfaces effectively with the provider's QQI approved quality assurance procedures. Any proposed incremental changes to the provider's QA procedures required by the programme or programme-specific QA procedures have been developed having regard to QQI's statutory QA guidelines. If the QA procedures allow the provider to approve the centres within the provider that may provide the programme, the procedures and criteria for this should be fit-for-the-purpose of identifying which centres are suited to provide the programme and which are not.
- c) There are explicit and suitable programme-specific criteria for selecting persons who meet the programme's staffing requirements and can be added to the programme's complement of staff.
- d) There are explicit and suitable programme-specific criteria for selecting physical resources that meet the programmes physical resource requirements, and can be added to the programme's complement of supported physical resources.
- e) Quality assurance<sup>21</sup> is intrinsic to the programme's maintenance arrangements and addresses all aspects highlighted by the validation criteria.
- f) The programme-specific quality assurance arrangements are consistent with QQI's statutory QA guidelines and use continually monitored completion rates and other sources of information that may provide insight into the quality and standards achieved.
- g) The programme operation and management arrangements are coherently documented and suitable.
- h) There are sound procedures for interface with QQI certification.

Programme	Satisfactory?	Comment
Higher Diploma in Science in	Yes	The Panel is satisfied that the provider's application
Data Analytics for Business		meets this criterion. CCT has established corporate
		governance and central quality assurance procedures
		in place, and successfully reengaged with QQI for
		approval of its QA in 2018. The management and
		procedures outlined for the proposed programme fully
		comprehend the provider's QA procedures.

<sup>&</sup>lt;sup>21</sup>See also QQI's Policy on Monitoring (QQI, 2014)

## Part 3. Initial recommendation to QQI

# 3.1 Principal programme: Higher Diploma in Science in Artificial Intelligence Concepts and Applications

Select one	
	Satisfactory (meaning that it recommends that QQI can be satisfied in the
	context of unit 2.3) of Core policies and criteria for the validation by QQI of
	programmes of education and training;
	Satisfactory subject to proposed special conditions (specified with timescale
Х	for compliance for each condition; these may include proposed pre-validation
Χ	conditions i.e. proposed (minor) things to be done to a programme that
	almost fully meets the validation criteria before QQI makes a determination);
	Not satisfactory.

### Reasons for the overall recommendation

Following the virtual site visit with CCT, the Panel was of the view that there were a number of areas to be addressed by CCT prior to implementation of the programme. These are discussed under Criterion 1 - 12 in this report and identified in Sections 3.1.1 and 3.1.2 below.

## 3.1.1 Summary of *initial* recommended special conditions of validation

- 1. CCT must revise the presentation of the programme concept within the documentation to more clearly identify:
  - The profile of target learners. As a graduate conversion programme, this profile must include the list of suitable and applicable cognate disciplines for the programme.
  - The entry requirements, including any specific prerequisite skills (e.g. mathematical competence) required to undertake the programme.
  - The RPL procedures for applicants that do not meet the entry requirements and who will be dealt with on a case by case basis.
  - The employment opportunities for graduates (role specific).

The guidance and other support mechanisms that will allow prospective learners to make an informed choice of programme.

- 2. CCT must undertake a focused review of the written curriculum proposed for the programme, taking account of the Panel's commentary pertaining to specific modules (provided under Criterion 5 in this report).
- 3. CCT must review the programme document module descriptors to ensure that:
  - Reading lists contain up to date reference material, use a consistent referencing style and include ISBN numbers.
  - The module teaching and learning (including formative assessment) strategy is specific to the module.

- The module reassessment strategy is clearly indicated.
- All Minimum Intended Module Learning Outcomes (MIMLOs):
  - Are measurable (i.e. exclude terms such as 'understand' or 'appreciate');
  - Are appropriate to NFQ Level 8;
  - Define the nature of learning within the module (i.e. theoretical, practical or both), using appropriate verbs;
  - Are consistent with the indicative module content;
  - Map clearly to the Minimum Intended Programme Learning Outcomes (MIPLOs);
  - Map clearly to the module assessment strategy.
- 4. CCT must revise the Programme Teaching and Learning (including Formative Assessment) strategy presented in the programme document. The strategy should be specific to the programme, and include:
  - Clear information about the blend of delivery modes to be employed, and the pedagogic rationale for employing this particular blend in the programme.
  - The corresponding necessary infrastructure requirements (i.e. minimum specifications for laptops or computers, internet access, etc.).
- 5. CCT must indicate within the programme documents what specific human and physical resources have been allocated to ensure:
  - The appropriate provision of technical support for staff and learners in the online environment. Within this, clear information about the nature of available support for learners outside of class contact hours must be provided.
  - The appropriate access to software, hardware/facilities required by staff and learners working in the online environment.
- 6. CCT must further develop its assessment strategy for the programme to ensure that the Panel can adequately evaluate its appropriateness, including the level of vulnerability associated with the integrated assessment strategy. Within this:
  - As per Validation Criterion 17.10 (f) sample assessment instruments, tasks, marking schemes and related evidence need to be provided to the Panel to indicate that the assessment is likely to be valid and reliable.
  - Appendix 8 must be reviewed to clearly indicate that Semester 3 is scheduled in the subsequent academic year for learners enrolled part-time. Standard terminology must be used to indicate assessment types in this document.

## 3.1.2 Summary of initial recommendations to the provider

1. The Panel recommends that a single 10 ECTS module on Machine Learning would be sufficent within this programme.

- 2. The Panel recommends that CCT consider consolidating modules presented with modules from the programme concurrently presented for validation (Higher Diploma in Science in Artificial Intelligence Concepts and Applications).
- 3. The Panel recommends that CCT continue its practice of keeping full-time and part-time cohorts separate in the virtual environment. However, CCT might consider how efficiencies could be maximised with regard to different cohorts from different programmes with shared modules availing of the same asynchronous, pre-recorded lecture content. The semester 1 and 3 schedules could also be reviewed to optimise and coordinate deliveries.
- 4. The Panel recommends that CCT formalise its processes for documenting how employers are systematically involved in programme design, and its presentation of this involvement within programme documents in future submissions.
- 5. The Panel recommends that CCT consider the use of MOSS as a measure to safeguard against software plagiarism.
- 6. The Panel recommends that CCT consider reorienting case studies or applications currently focused on gaming to areas where significantly more employment opportunities will be available to graduates in Ireland, for example in the area of smart manufacturing.

## Part 4. Overall recommendation to QQI

# 4.1 Principal programme: Higher Diploma in Science in Artificial Intelligence Concepts and Applications

Select one	
	Satisfactory (meaning that it recommends that QQI can be satisfied in the
	context of unit 2.3) of Core policies and criteria for the validation by QQI of
	programmes of education and training;
	Satisfactory subject to proposed special conditions (specified with timescale
X	for compliance for each condition; these may include proposed pre-validation
	conditions i.e. proposed (minor) things to be done to a programme that
	almost fully meets the validation criteria before QQI makes a determination);
	Not satisfactory.

#### Reasons for the overall recommendation

The Panel reconvened on August 31<sup>st</sup> to review evidence submitted by CCT that the initial recommended special conditions of validation had been met, and to make an overall recommendation for the programme. The Panel was of the view that although substantive work had been done to improve the programme, some discrete issues remained. These are identified in Sections 4.1.1 and 4.1.2 below.

### 4.1.1 Summary of recommended special conditions of validation

- 1. The Panel note that the programme team have introduced additional indicative content within the Data Preparation module that is focused on development of learners' programming skills. However, the panel note that there are no MIMLOs associated with this. This must be addressed prior to delivery of the programme.
- 2. The Panel note that with regard to reassessment strategies, the following text within module documentation does not provide the Panel with sufficient clarity regarding what is proposed or how it will be managed: "Learners who fail the integrated assessment will be required to repeat the failed element(s) of the assessment and submit at the reassessment point". This must be revised with a view to ensuring the intended strategy is transparent for the purpose of external evaluation prior to delivery of the programme.
- 3. The Panel note that with regard to access (minimum requirements for general learning) the programme documentation states that learners must demonstrate an NFQ Level 7 or equivalent level of numerate, technical <u>or</u> analytical competence. The Panel is of the view that as this is a conversion programme, this must be worded and interpreted as numerate, technical <u>and</u> analytical competence at NFQ Level 8. This must be addressed prior to delivery of the programme.

4. The Panel note that there is a deficiency of documented evidence that, in the development of the programme, CCT has systematically involved employers in the process of programme design or sought out and taken into account the view of employers and industry bodies. The Panel notes that this activity should be used to inform the identification of employment opportunities for graduates. Therefore, the panel requires CCT to develop a process for formalising stakeholder involvement in programme development and review within a period of six months. This process must be developed with a view to facilitating transparency during processes including programme validation, programmatic review and programme revalidation. The panel has made a detailed recommendation for CCT regarding how this could be achieved.

## 4.1.2 Summary of recommendations to the provider

- 1. The Panel recommend that CCT consider establishing an Industry Advisory Council representing stakeholders in industry that would be drawn from variety of related sectors and that would cover a number of their programmes. The Industry Advisory Council could usefully:
  - establish a calendar of quarterly meetings
  - work off a defined agenda to:
    - have industry representatives present briefly on new topics impacting industry,
    - have programmes teams present briefly on learnings, new developments, future plans
    - elicit and capture feedback and input from the Council on current course/industry fit
    - use qualitative data captured to inform plans and anticipate emerging needs as appropriate
  - record minutes, actions arising and impact on programme design, delivery and development.
- 2. The Panel recommend that CCT review the presentation of the programme documentation to ensure the learning hours per semester are clearly presented and address any apparent imbalance.
- 3. The Panel recommend that at future validation and revalidation events CCT place emphasis on demonstrating preparedness for Validation Criterion 17.10 (f) which requires that sample assessment instruments, tasks, marking schemes and related evidence need to be provided to indicate that the assessment is likely to be valid and reliable.

## Declarations of Evaluators' Interests

This report has been agreed by the evaluation Panel and is signed on their behalf by the chairperson.

Panel chairperson: David Denieffe

Date: 7<sup>th</sup> October 2020

Signed:

### 4.2 Disclaimer

The Report of the External Review Panel contains no assurances, warranties or representations express or implied, regarding the aforesaid issues, or any other issues outside the Terms of Reference.

While QQI has endeavoured to ensure that the information contained in the Report is correct, complete and up-to-date, any reliance placed on such information is strictly at the reader's own risk, and in no event will QQI be liable for any loss or damage (including without limitation, indirect or consequential loss or damage) arising from, or in connection with, the use of the information contained in the Report of the External Evaluation Panel.

Part 5. Proposed programme schedules (post Panel feedback and consequent amendments, ifany)