

Qualification Specification:

OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions

Qualification No: 610/5286/3

Version: 1.0



1. Specification Updates

Key changes have been listed below:

Section	Detail of change	Version and date of Issue	



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3. Introduction to Open College Network Northern Ireland (OCN NI)

The Open College Network Northern Ireland (OCN NI) is a UK recognised awarding organisation based in Northern Ireland. We are regulated by CCEA Regulation to develop and award regulated professional and technical (vocational) qualifications from Entry Level up to and including Level 5 across all sector areas. In addition, OCN NI is also regulated by Ofqual to award qualifications in England.

OCN NI is also an educational charity that advances education by developing nationally recognised qualifications and recognising the achievements of learners. We work with centres such as Further Education Colleges, Private Training Organisations, Voluntary & Community Organisations, Schools, SME's and Public Sector bodies to provide learners with opportunities to progress into further learning and/or employment. OCN NI's Strategic Plan can be found on the OCN NI website www.ocnni.org.uk.

For further information on OCN NI qualifications or to contact us, you can visit our website at www.ocnni.org.uk. The website should provide you with details about our qualifications, courses, contact information, and any other relevant information you may need.

OCN NI Contact Details

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4. About this Specification

This specification details OCN NI's specific requirements for the delivery and assessment of the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions.

This specification will provide guidelines for centres to ensure the effective and correct delivery of this qualification. OCN NI qualification specifications are based on research and engagement with the practitioner community to ensure they provide appropriate skills and knowledge for learners.

The qualification specification will detail the following aspects of the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions.

- **Qualification Features**: this includes the key characteristics and features of this qualification, such as its intended audience, purpose, and credit value.
- <u>Centre Requirements</u>: this details the prerequisites and obligations that centres
 must fulfil to be eligible to deliver and assess this qualification. These include
 guidelines on staff qualifications, resources, and required procedures.
- Structure and Content: this details the structure and content of the qualification including units, and any specific content that learners will be required to study.
- Assessment Requirements: this details assessment criteria and assessment methods for this qualification, ensuring that summative assessment approaches are clear.
- Quality Assurance: the quality and consistency of delivery and assessment of
 this qualification are of paramount importance to OCN NI. The mandatory quality
 assurance arrangements including processes for internal and external
 verification that all centres offering this qualification must adhere to are detailed.
- Administration: guidance on the administrative aspects of delivering this qualification, including registration, certification, and record-keeping.
- Reference to other handbooks and policies as appropriate to the qualification.

It is important to note that OCN NI will communicate any significant updates or changes to this specification in writing to our Centres. Additionally, we will make these changes available on our official website at www.ocnni.org.uk.

To stay current, please refer to the online version of this specification as it is the most authoritative and up-to-date publication. Be aware that downloaded and printed copies may not reflect the latest revisions.



4.1 Additional Support

OCN NI offers a comprehensive range of support services designed to assist Centres in meeting the delivery and quality assurance requirements of OCN NI qualifications. These services include:

- <u>Learner Assessment Booklets</u>: These booklets are created to assist learners in demonstrating the fulfilment of assessment criteria and organising the quality assurance prerequisites for each individual unit.
- Qualification Support Pack: A support pack has been developed to support Centres in the delivery of this qualification. The pack includes planning and assessment templates, guides to best practice, etc.
- Professional Development for Educators: OCN NI provides opportunities for professional development tailored to meet the various needs of practitioners and quality assurance staff. Centres can join our training sessions, available in both face-to-face and online formats, or explore a wealth of training materials by visiting www.ocnni.org.uk
- OCN NI Subject Advisors: Our team of subject advisors offers vital information
 and support to Centres. They provide guidance on specification details, nonexam assessment advice, updates on resource developments, and various
 training opportunities. They actively engage with subject communities through an
 array of networks to facilitate the exchange of ideas and expertise, to support
 practitioners to provide quality education programs to learners.

All centres can access information, support and guidance to support the delivery and quality assurance of this qualification by contacting their designated Business Development Advisor or by contacting us on Contact Us | OCN NI



5. About this Qualification

5.1 Qualification Regulation Information

OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions

Qualification Number: 610/5286/3

Operational start date: 15 January 2025 Operational end date: 14 January 2030 Certification end date: 14 January 2034

The qualification's operational start and end dates define the regulated qualification's lifecycle. The operational end date is the final date for learner registration, while learners have until the certificate end date to complete the qualifications and receive their certificates.

It is important to note that all OCN NI regulated qualifications are listed on the Register of Regulated Qualifications (RQF), which can be found at Ofqual Register. This register is maintained by Ofqual in England and CCEA Regulation in Northern Ireland. It contains information about qualifications that are regulated and accredited. It is a key resource for learners, employers, and educational institutions to verify the status and recognition of qualifications.

Centres must adhere to administrative guidelines diligently, with special attention to the fact that fees, registration, and certification end dates for the qualification may be subject to changes. It is a centre's responsibility to make itself aware of updates on any modifications to ensure compliance with the latest requirements. OCN NI provides centres with timely updates through various channels including website, newsletters and through this specification. Information on qualification fees can be found on the Centre Login section of the OCN NI website www.ocnni.org.uk.

5.2 Sector Subject Area

A subject sector area is a specific category used to classify academic and vocational qualifications. Subject sector areas are part of the educational and qualifications framework to organise and categorise qualifications. The sector subject for this qualification is:

6.1 ICT for practitioners

NOS: URN: TECDT90344 - Implement cloud security - National Occupational Standards



5.3 Qualification Aim and Objectives

Qualification Aim

The aim of the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions is to enable the learner to gain skills in cloud-based computing, specifically in the areas of machine learning and implementing and securing computer networks.

Qualification Objectives

The objectives of the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions are to enable learners to gain skills and knowledge to:

- secure network communications
- use software defined networking (SDN services to address network connectivity issues)
- evaluate cloud network security and make recommendations for security and performance improvements

5.4 Target Learners

The OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions is targeted at both existing IT learners and individuals working in IT who wish to develop skills in cloud-based computing.

The qualification has been designed for:

- learners aiming to advance to further or higher education in the field of information technology
- learners seeking entry into employment in the field of information technology

5.5 Entry Requirements

In order to take this qualification learners must be at least 18 years old and have a level 3 qualification.

5.6 Progression

Progression from the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions is to the OCN NI Level 5 Certificate in Security, Compliance and Identity for Cloud-Based Systems or into relevant employment.

5.7 Delivery Language

This qualification is exclusively available in English. If there is a desire to offer this qualification in Welsh or Irish (Gaeilge), we encourage you to get in touch with OCN NI. They will assess the demand for such provisions and, if feasible, provide the qualification in the requested language as appropriate.



6. Centre Requirements for Delivering this Qualification

6.1 Centre Recognition

New and existing OCN NI recognised centres must apply for and be granted approval to deliver this qualification prior to the commencement of delivery.

6.2 Qualification Approval

Once a Centre has successfully undergone the Centre Recognition process, it becomes eligible to apply for qualification approval. The Centre's capability to meet and sustain the qualification criteria will be assessed. Throughout the qualification approval process, OCN NI will aim to ensure that:

- centres possess suitable physical resources (e.g., equipment, IT, learning materials, teaching rooms) to support qualification delivery and assessment
- centre staff involved in the assessment process have relevant expertise and/or occupational experience
- robust systems are in place for ensuring ongoing professional development for staff delivering the qualification
- centres have appropriate health and safety policies concerning learner equipment use
- qualification delivery by centres complies with current equality and diversity legislation and regulations
- as a part of the assessment process for this qualification, it would be useful for learners to have access to a practical work setting

6.3 Centre Staffing

To offer these qualifications centres are mandated to establish the following roles as a minimum, although a single staff member may serve in more than one capacity*:

- Centre contact
- Programme Co-ordinator
- Assessor
- Internal Verifier

^{*}Note: An individual cannot serve as an Internal Verifier for their own assessments.



6.4 Tutor Requirements

Tutors responsible for delivering this qualification are expected to possess a high degree of occupational competency. They should meet the following criteria:

- Occupational Competency: Tutors should demonstrate a clear understanding
 of the subject matter, including up-to-date knowledge of the information
 technology industry. This competence should enable them to effectively impart
 knowledge and practical skills to learners.
- Qualifications: Tutors should hold qualifications at a level that is at least one level higher than the qualification they are teaching. This ensures that they have the necessary academic foundation to provide in-depth guidance and support to learners.
- Relevant Industry Experience: In addition to academic qualifications, tutors
 must have a minimum of three years of relevant, hands-on experience in the
 information technology industry.

These requirements collectively ensure that learners receive instruction from highly qualified and experienced instructors, thereby enhancing the quality and effectiveness of their educational experience.

6.5 Assessor Requirements

The assessment of this qualification takes place within the Centre and is subjected to OCN NI's rigorous quality assurance procedures. The achievement of individual units is based on the criteria defined in each unit.

Assessors play a pivotal role in ensuring the validity and fairness of assessments. They are required to meet the following criteria:

- Occupational Competency: Assessors should possess a high degree of
 occupational competency in the relevant subject matter. This expertise enables
 them to accurately evaluate and measure a learner's knowledge and skills.
 Additionally, they should hold qualifications at a level that is at least one level
 higher than the qualification they are assessing, ensuring their in-depth
 understanding of the subject matter.
- Relevant Industry Experience: A minimum of three years of practical experience
 in the information technology industry is a prerequisite. This practical
 background is essential for assessors to effectively evaluate a learner's
 capabilities in real-world contexts.
- Assessment Expertise: Assessors should have direct or related experience in the field of assessment. This includes knowledge of best practices in designing, conducting, and grading assessments. Their expertise ensures that assessments are both fair and valid.



- Assessors Qualification: Assessors should hold or be currently undertaking a recognised assessor's qualification; or must have attended the OCN NI Assessment Training.
- Comprehensive Assessment Oversight: Assessors are responsible for evaluating all assessment tasks and activities comprehensively. They must thoroughly review and assess each element to ensure a fair and accurate representation of a learner's skills and knowledge.

These rigorous requirements uphold the quality and integrity of the qualification's assessment process, ensuring that learners receive a fair and reliable evaluation of their information technology competencies.

6.6 Internal Verifier Requirements

The Internal Verifier plays a crucial role in the Centre's internal quality assurance processes. The Centre must designate a skilled and trained Internal Verifier who assumes the role of an internal quality monitor responsible for verifying the delivery and assessment of the qualification.

The Internal Verifier for this qualification must meet the following criteria:

- Relevant Industry Experience: A minimum of three years of practical experience
 in the information technology industry is a prerequisite. This practical
 background is essential for assessors to effectively evaluate a learner's
 capabilities in real-world contexts.
- Internal Verification Expertise: Internal Verifiers should have direct or related experience in the field of verification. This includes knowledge of best practices in designing, conducting, and grading assessments. Their expertise ensures that assessments are both fair and valid.
- Internal Verifier's Qualification: Internal Verifiers should hold or be currently undertaking a recognised Internal Verifier's qualification; or must have attended the OCN NI Internal Verification Training.
- Thorough Evaluation of Assessment Tasks and Activities: Internal verifiers are
 tasked with conducting in-depth reviews and assessments of all assessment
 tasks and activities. Their responsibility is to ensure a comprehensive and
 meticulous oversight of each element to guarantee a just and precise reflection
 of a learner's abilities and knowledge and to ensure that all assessment and
 quality assurance requirements are fulfilled.



7. Qualification Structure

7.1 Qualification Purpose

The OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions is a unitised qualification on a scale of pass or fail. Learners are expected to demonstrate a comprehensive understanding of the subject matter, ensuring a level of proficiency. This qualification will enable learners to acquire practical skills in cloud-based computing, specifically in the areas of machine learning and implementing and securing computer networks, equipping learners with the capabilities required for employment in the sector.

7.2 Qualification Level

In the context of the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions it is essential to understand the significance of qualification levels, as they play a pivotal role in assessing the depth and complexity of knowledge and skills required for successful attainment. This qualification aligns with Level 4, which signifies a complex level of difficulty and intricacy. It's important to note that qualification levels in the educational framework range from Level 1 to Level 8, complemented by three 'entry' levels, namely Entry 1 to Entry 3.

7.3 Qualification Size

Total Qualification Time (TQT)

This represents the total amount of time a learner is expected to spend to complete the qualification successfully. It includes both guided learning hours (GLH) and independent study or additional learning time.

Guided Learning Hours (GLH)

These are the hours of guided instruction and teaching provided to learners. This may include classroom instruction, tutorials, or other forms of structured learning.

OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions			
Total Qualification Time (TQT): 130 hours			
Total Credits Required:	13 credits		
Guided Learning Hours (GLH):	74 hours		

7.4 How to Achieve the Qualifications

To achieve the OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions learners must complete one unit - 13 credits.



8. Assessment Structure

This qualification is assessed through internal assessment and each unit is accompanied by specific assessment criteria that define the requirements for achievement.

8.1 Assessment Guidance: Portfolio

The portfolio for this qualification is designed to provide a comprehensive view of a learner's skills and knowledge. It is a holistic collection of evidence that may include a single piece of evidence that satisfies multiple assessment criteria. There is no requirement for learners to maintain separate evidence for each assessment criterion.

When learners are creating their portfolio, they should refer to the assessment criteria to understand the evidence required. Explanations of command words/verbs used in the assessment criteria can be found in Appendix1 of this document.

It is essential that the evidence in the portfolio reflects the application of skills in real-world situations. Learners should ensure that they provide multiple examples or references whenever the assessment criteria require it.

When demonstrating knowledge, learners can draw from their own organisation or another organisation they are familiar with to provide context.

8.2 Understanding the Units

The units outlined in this specification establish clear assessment expectations. They serve as a valuable guide for conducting assessments and ensuring quality assurance efficiently. Each unit within this specification follows a consistent structure. This section explains the operational framework of these units. It is imperative that all educators, assessors, internal verifiers, and other personnel overseeing the qualification, review and familiarise themselves with this section to ensure a comprehensive understanding of how these units function.

- Title: The title will reflect the content of the unit and should be clear and concise.
- **Level:** A unit can have one of six RQF levels: Entry, One, Two, Three, Four or Five. All units within this qualification are level 4.
- Credit Value: This describes the number of credits ascribed to a unit. It identifies
 the number of credits a learner is awarded upon successful achievement of the
 unit. One credit is awarded for the learning outcomes which a learner, on average,
 might reasonably be expected to achieve in a notional 10 hours of learning.
- Learning Outcome: A coherent set of measurable achievements.
- **Assessment Criteria:** These enable a judgement to be made about whether or not, and how well, the students have achieved the learning outcomes.
- Assessment Guidance and Methods: These detail the different assessment methods within the unit that may be used.
- **Possible Content:** This provides indicative content to assist in teaching and learning.



9. Qualification Summary by Unit

OCN NI Level 4 Certificate in Optimising Cloud-Based Machine Network Solutions

Total Qualification Time (TQT) for this qualification: 130 hours Guided Learning Hours (GLH) for this qualification: 74 hours

To achieve this qualification learners must successfully complete the one unit - 13 credits.

Unit Reference Number	OCN NI Unit Code	Unit Title	Credit Value	GLH	Level
<u>K/651/4376</u>	CBG693	Optimising Cloud-Based Network Solutions	13	74	Four



10. Unit Content

Title	Optimising Cloud-Based Network Solutions
Level	Four
Credit Value	13
Guided Learning Hours (GLH)	74
OCN NI Unit Code	CBG693
Unit Reference No	K/651/4376
Learn Direct Code	CL4

Unit purpose and aim(s): This unit will enable the learner to understand how to optimise communications, connectivity, security and performance of cloud-based networks.

Learning Outcomes		Assessment Criteria		
1.	Be able to secure network communications.	1.1. Evaluate the use of the following technologies to provide secure network communications: a) virtual networks b) public and private Internet Protocols (IPs) c) Domain Name System (DNS) d) virtual network peering e) routing f) cloud virtual Network Address Translation (NAT) g) site-to-site Virtual Private Network (VPN) connections h) point-to-site VPN connections i) authentication for point-to-site VPN connections j) cloud virtual Wide Area Networks (WANs) 1.2. Determine for given applications the appropriate technologies from those identified in AC 1.1 to be used and their configuration to provide secure network communications.		
2.	Be able to use software defined networking (SDN) services to address network connectivity issues.	2.1. Explain the application of the following SDN services: a) ExpressRoute b) ExpressRoute Global Reach c) ExpressRoute FastPath d) Cloud Load Balancers e) Cloud Traffic Manager profiles 2.2. Use SDN services to determine the most appropriate solution to address given network connectivity issues.		
3.	Be able to use hybrid network connectivity and routing methods.	 3.1. Explain the application of the following hybrid connectivity and routing methods: a) Cloud-based service chaining and gateway transits b) Virtual Private Networking (VPN) and connectivity between VNets c) User Defined Routes (UDRs) d) linking routing tables with a subnet e) forced tunnelling configuration f) cloud route servers 3.2. Determine for given applications the appropriat use of hybrid connectivity and routing methods. 		



- Be able to evaluate cloud network security and make recommendations for security and performance improvements.
- 4.1. Evaluate for given cloud network security systems where security may be improved by utilising the following cloud-based applications:
 - a) Distributed Denial of Service (DDoS) protection
 - b) network security groups
 - c) firewall applications
- 4.2. Determine the most appropriate technologies to be implemented for a given application to enable monitoring of cloud-based network performance.

Assessment Guidance

NOS: URN: TECDT90344 - Implement cloud security - National Occupational Standards

The following assessment method/s may be used to ensure all learning outcomes and assessment criteria are fully covered.

Assessment Method	Definition	Possible Content	
Portfolio of evidence	A collection of documents containing work undertaken to be assessed as evidence to meet required skills outcomes OR A collection of documents containing work that shows the learner's progression through the course	Learner notes/written work Learner log/diary Peer notes Record of observation Record of discussion	
Practical demonstration/assignment	A practical demonstration of a skill/situation selected by the tutor or by learners, to enable learners to practise and apply skills and knowledge	Record of observation Learner notes/written work Learner log	
Coursework	Research or projects that count towards a learner's final outcome and demonstrate the skills and/or knowledge gained throughout the course	Record of observation Learner notes/written work Tutor notes/record Learner log/diary	
E-assessment	The use of information technology to assess learners' work	Electronic portfolio E-tests	



Learning Outcome	Unit Content - Optimising Cloud-Based Network Solutions
Be able to secure network	Scope
communications.	Teaching will cover:
	Understanding the factors to be considered when designing and implementing networking infrastructure including: virtual networks public and private internet protocols (IPs) domain name systems (DNS) virtual network peering routing cloud virtual network address translation (NAT) Understanding the principles underpinning use of the following technologies to enable secure network communications: transmission control protocol/internet protocol (TCP/IP) DNS virtual private networks (VPNs) firewalls encryption Understanding the following: site-to-site VPN connections point-to-site VPN connections authentication for point-to-site VPN connections cloud virtual wide area networks (WANs)
Be able to use software defined networking (SDN) services to address	Scope Teaching will cover:
network connectivity	Understanding the following:
issues.	• SDN
	provision of fast and reliable connections
	ExpressRoute services Load belonging
	load balancingtraffic management
	 traffic management Using a given technology e.g. ExpressRoute to perform the following: selecting an appropriate connectivity model selecting an appropriate stock keeping unit (SKU)and tier designing and implementing cross-region connectivity, redundancy, and disaster recovery designing and implementing connectivity options for given scenarios configuring private and one other form of peering e.g. Microsoft creating and configuring gateways connecting a virtual network recommending route advertisement configurations configuring encryption implementing Bidirectional Forwarding Detection diagnosing and resolving connection issue



3. Be able to use hybrid network connectivity and routing methods.	Scope Teaching will cover:	
	Understanding the following hybrid network connectivity and routing methods: Cloud-based service chaining and gateway transits. VPNs and connectivity between virtual networks (VNets) user defined routes (UDRs) linking routing tables with a subnet forced tunnelling configuration resolving routing issues cloud route servers	
4. Be able to evaluate cloud network security and make recommendations for security and performance improvements.	Teaching will cover: Understanding of cloud-based operation and configuration of cloud-based firewall applications, e.g. Front Door, Defender Understanding of the following: • resilience and disaster recovery including availability and restore operations • distributed denial of service attacks (DDoS) • network security groups • firewall operation and configuration Understanding of network performance monitoring and the use of analytics to inform cloud network security and performance improvements including: • network health alerts and logging • connectivity • traffic analytics • diagnostic logging	



11. Quality Assurance of Centre Performance

11.1 Internal Assessment

When delivering and assessing qualifications, Centres must align with stakeholders' expectations and address learners' needs by implementing a practical and applied programme. Centres have the flexibility to customise programmes to meet local requirements and establish connections with local employers and the broader vocational sector.

The Assessor should work with the Internal Verifier to ensure that the assessment is planned in line with OCN NI requirements. Assessment Plans must be developed and approved by the Internal Verifier prior to the delivery of the qualification.

All units within qualifications must undergo internal assessment. Learners must provide evidence that they have appropriately met all assessment criteria required for that grade.

The assessment format for all units involves a task conducted after the delivery of the unit's content, or part of it, if multiple tasks are used. Tasks may exhibit in various forms, encompassing practical and written types. Please refer to 'OCN NI's Assessment Definitions Guide' for additional details.

A task constitutes a distinct activity completed independently by learners, separated from teaching, practice, exploration, and other activities guided by tutors. Tasks are assigned to learners with a specified start date, completion date, and explicit requirements for the evidence to be produced. Some tasks may include observed practical components and require diverse forms of evidence.

A valid assignment will enable a clear and formal assessment outcome, which meets the requirements of the assessment criteria. Assessment decisions are based on the specific assessment criteria given in each unit and set at each grade level. The way in which individual units are written provides a balance of assessment of understanding, practical skills and vocational attributes appropriate to the purpose of qualifications.

It is the Assessor's role to ensure that learners are appropriately prepared for assessment, this begins from induction onwards. Assessors should ensure that learners understand how assessment tasks are used to determine the award of credit, the importance of meeting assessment timelines, and that all learners work must be independently created, where source documents are used this should be appropriately referenced, learners should be aware of what would constitute plagiarism and the possible consequences.

When conducting the assessment, Assessors must ensure they do not provide direct input, instructions or specific feedback which may compromise the authenticity of the work submitted.



Once the Assessor has authenticated the learner's work, they must transparently demonstrate the rationale behind their assessment decisions. Once a learner completes all assigned tasks for a unit, the Assessor will allocate a grade for the unit. Refer to the 'Unit Grading Matrix' for additional information on the grading process.

Once the Assessor has completed the assessment process for the task, the assessment decision is recorded formally, and feedback is provided to the learner. The feedback should show the learner the outcome of the assessment decision, how it was determined or where the criteria has been met. It may indicate to the learner why achievement of the assessment criteria has not been met. It must be clear to the learner that this Assessment outcome is subject to verification.

For further information on assessment practice, please see the 'OCN NI Centre Handbook' in the centre login area of the <u>OCN NI website</u>. Assessment Training is also available and can be booked through the OCN NI Website.

11.2 Internal Verification

The role of the Internal Verifier is to ensure appropriate internal quality assurance processes are carried out. The Internal Verifier must oversee that assessments are conducted in accordance with relevant OCN NI policies, regulations, and this specification.

The Internal Verifier must ensure assessments are fair, reliable, and uniform, thereby providing a consistent standard for all learners.

Internal Verifiers are required to provide constructive feedback to Assessors, identifying areas of strength and those that may require improvement. This feedback contributes to the ongoing professional development of Assessors.

Contributing to the standardisation of assessment practices within the Centre is an important function of this role. This entails aligning assessment methods, grading criteria, and decision-making processes to maintain fairness and equity.

Internal Verifiers will actively engage in the sampling and monitoring of assessments to ensure the consistency and accuracy of assessment decisions. This process helps identify trends, areas for improvement, and ensures the robustness of the overall assessment system.

For further information on internal verification practice, please see the 'OCN NI Centre Handbook'. Internal Verification Training is also available and can be booked through the OCN NI Website.

11.3 Documentation

For internal quality assurance processes to be effective, the internal assessment and internal verification team needs to keep effective records.

- The programme must have an assessment and internal verification plan. When producing a plan, they should consider:
 - o the time required for training and standardisation activities
 - o the time available to undertake teaching and carry out assessment,



- consider when learners may complete assessments and when quality assurance will take place
- o the completion dates for different assessment tasks
- o the date by which the assignment needs to be internally verified
- o sampling strategies
- how to manage the assessment and verification of learners' work so that they can be given formal decisions promptly
- o how resubmission opportunities can be scheduled

The following documents are available from OCN NI and document templates can be found in the Centre Login section of the OCN NI website www.ocnni.org.uk:

- A1 Learner Assessment Record per Learner
- A2 Assessment Decision Form per Learner
- learner authentication declarations
- Records of any reasonable adjustments applied for and the outcome please see 'OCN NI's Reasonable Adjustments and Special Consideration Policy' for further information
- M1 Internal Verification Sample Record
- M2 Feedback to Assessor
- · Records of any complaints or appeals

11.4 External Quality Assurance

All OCN NI recognised centres are subject to External Quality Assurance. External quality assurance activities will be conducted to confirm continued compliance with the CCEA Regulation General Conditions of Recognition, OCN NI terms and conditions and the requirements outlined within this qualification specification.

The External Quality Assurance is assigned by OCN NI. The External Quality Assurer will review the delivery and assessment of these qualifications. This will include, but is not limited to, the review of a sample of assessment evidence and evidence of the internal verification of assessment and assessment decisions. This will form the basis of the External Quality Assurance report and will help OCN NI determine the Centre's risk.

The role of the External Quality Assurer serves as an external overseer of assessment quality, working to uphold consistency, compliance, and continuous improvement within the assessment process. Their role is crucial in ensuring that assessments are valid, reliable, fair, and aligned with the required standards and regulations.

For further information on OCN NI Centre Assessments Standards Scrutiny (CASS) Strategy, please see the OCN NI Centre Handbook.



11.5 Standardisation

As a process, standardisation is designed to ensure consistency and promote good practice in understanding and the application of standards. Standardisation events:

- make qualified statements about the level of consistency in assessment across centres delivering a qualification
- make statements on the standard of evidence that is required to meet the assessment criteria for units in a qualification
- make recommendations on assessment practice
- produce advice and guidance for the assessment of units
- identify good practice in assessment and internal verification

Centres offering OCN NI qualifications must carry out internal standardisation activities prior to the claim for certification.

Centres offering units of an OCN NI qualification must attend and contribute assessment materials and learner evidence for standardisation events if requested.

OCN NI will notify centres of the nature of sample evidence required for standardisation events (this will include assessment materials, learner evidence and relevant Assessor and Internal Verifier documentation). OCN NI will make standardisation summary reports available and correspond directly with centres regarding event outcomes.



12. Administration

12.1 Registration

A centre must register learners for this qualification within 90 days of commencement of the delivery of the programme.

For further information on learner registration please see the OCN NI Centre Handbook and the QuartzWeb Manual, available through the Centre Login section of the OCN NI website. Administration training is also available and can be booked through https://www.ocnni.org.uk/.

12.2 Certification

Once all internal quality assurance activities have been successfully completed the Centre can claim certification for the learner(s).

Certificates will be issued to centres within 20 working days from completion of a satisfactory external quality assurance activity, if appropriate, alternatively from the submission of an accurate and complete marksheet.

It is the responsibility of the centre to ensure that certificates received from OCN NI are held securely and distributed to learners promptly and securely.

For further information on the uploading of results please see the QuartzWeb Manual for guidance, administration training is also available and can be booked through OCN NI

12.3 Charges

OCN NI publishes all up-to-date qualification fees in its Fees and Invoicing Policy document. Further information can be found on the centre login area of the OCN NI Website.

12.4 Equality, Fairness and Inclusion

OCN NI is committed to ensuring all learners have an equal opportunity to access our qualifications and assessment, and that our qualifications are awarded in a way that is fair to every learner.

OCN NI is committed to making sure that:

- learners with a protected characteristic are not, when they are undertaking one
 of our qualifications, disadvantaged in comparison to learners who do not share
 that characteristic
- all learners achieve the recognition they deserve for undertaking a qualification and that this achievement can be compared fairly to the achievement of their peers



For information on reasonable adjustments and special considerations please see the OCN NI Centre Handbook and Reasonable Adjustments and Special Considerations Policy held in the back office of the OCN NI website.

12.5 Retention of Evidence

OCN NI has published guidance for centres on the retention of evidence. Details are provided in the OCN NI Centre Handbook and can be accessed via the OCN NI website.



OCN NI Level 4 Certificate in Optimising Cloud-Based Network Solutions

Qualification Number: 610/5286/3

Operational start date: 15 January 2025 Operational end date: 14 January 2030 Certification end date: 14 January 2034

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12.6 Appendix 1 - Definition of OCN NI's Assessment Verbs

The following verbs are working definitions of those used in OCN NI assessments and how they can be applied and used in different but equally valid contexts.

Verb	Definition	Example
Determine	To ascertain or establish something precisely through examination, investigation, and / or calculation, often leading to a decision, conclusion, or resolution.	The learner will be expected to identify or decide upon specific information, outcomes, or solutions based on analysis, evidence, calculation and / or reasoning within a given context.
Evaluate	An evaluation is normally detailed and provides a solution or conclusion and/or recommendation (perhaps for further exploration). An evaluation could include a comparative element and will ascertain the usefulness or contribution of each part to the whole.	The learner will be expected to assess, analyse, and form judgments about a subject, considering its merits, shortcomings, and potential improvements based on evidence and reasoning.
Explain	Make clear a given subject matter and / or give reasons for and/or the procedure in a given situation or regarding a given subject matter / Setting out purposes or reasons.	The learner will be expected to provide clarity on the subject, outlining the procedure or procedures associated with it, and set out reasons for its importance and / or significance. The learner will be expected to demonstrate a detailed comprehension of the subject matter.
Use	Operate a system or process showing skills and knowledge in more than one area and / o contexts and generally carried out on at least three occasions.	The learner will be expected to use a system, process or tool in a practical assessment activity, requiring them to apply theoretical knowledge or skills in real-world scenarios to demonstrate competency and understanding.