



Qualification Specification for:

OCN NI Level 2 Diploma in Motor Vehicle Skills → Qualification No: 610/2946/4



Qualification Regulation Information

Qualification Title: OCN NI Level 2 Diploma in Motor Vehicle Skills

Qualification Number: 610/2946/4

Operational start date:	15 July 2023
Operational end date:	14 July 2028
Certification end date:	14 July 2030

Qualification operational start and end dates indicate the lifecycle of a regulated qualification. The operational end date is the last date by which learners can be registered on a qualification. Learners have up to the certificate end date to complete the qualification and claim their certificate.

All OCN NI regulated qualifications are published to the Register of Regulated Qualifications (<u>http://register.ofqual.gov.uk/</u>). This site shows the qualifications and awarding organisations regulated by CCEA Regulation and Ofqual.

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Foreword

This document explains OCN NI's requirements for the delivery and assessment of the following regulated qualification:

> OCN NI Level 2 Diploma in Motor Vehicle Skills

This specification sets out:

- Qualification features
- Centre requirements for delivering and assessing the qualification
- The structure and content of the qualification
- Assessment requirements for the qualification
- OCN NI's quality assurance arrangements for the qualification
- Administration

OCN NI will notify centres in writing of any major changes to this specification. We will also publish changes on our website at <u>www.ocnni.org.uk</u>

This specification is provided online, so the version available on our website is the most up to date publication. It is important to note that copies of the specification that have been downloaded and printed may be different from this authoritative online version.



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About Regulation

OCN NI

Open College Network Northern Ireland (OCN NI) is a regulated Awarding Organisation based in Northern Ireland. OCN NI is regulated by CCEA Regulation to develop and award professional and technical (vocational) qualifications from Entry Level up to and including Level 5 across all sector areas. In addition, OCN NI is regulated by Ofqual to award similar qualification types in England.

The Regulated Qualifications Framework: an overview

The Regulated Qualifications Framework (RQF) was introduced on 1st October 2015: the RQF provides a single framework for all regulated qualifications.

Qualification Level

The level indicates the difficulty and complexity of the knowledge and skills associated with any qualification. There are eight levels (Levels 1-8) supported by three 'entry' levels (Entry 1-3).

Qualification Size

Size refers to the estimated total amount of time it could typically take to study and be assessed for a qualification. Size is expressed in terms of Total Qualification Time (TQT), and the part of that time typically spent being taught or supervised, rather than studying alone, is known as Guided Learning Hours (GLH).



Qualification Summary

Sector Subject Area

4.3 Transportation operations and maintenance

National Occupational Standards

This qualification reflects the following National Occupational Standards:

NOS - Motor Vehicle:

IMICA02 - Reduce Risk(s) to Health and Safety in the Motor Vehicle Environment

(ukstandards.org.uk)

IMICA01 - Contribute to Housekeeping in Motor Vehicle Environments (ukstandards.org.uk)

IMICY13 - Safely carry out operations on, near or with light electric vehicles - National

Occupational Standards (ukstandards.org.uk)

IMILV13 - Diagnose and rectify light vehicle transmission and driveline system faults -

National Occupational Standards (ukstandards.org.uk)

IMILV06 - Inspect light vehicles - National Occupational Standards (ukstandards.org.uk)

Qualification Aim

The aim of the OCN NI Level 2 Diploma in Motor Vehicle Skills is to develop a broad base of motor vehicle skills and practical motor vehicle techniques.

Qualification Objectives

The objectives of the OCN NI Level 2 Diploma in Motor Vehicle Skills will enable learners to gain a range of motor vehicle knowledge including health and safety, tools, equipment and materials used in motor vehicle maintenance. Learners will also develop skills associated with a range of motor vehicle operations and components.

Grading

Grading for this qualification is pass/fail.

Qualification Target Group

The OCN NI Level 2 Diploma in Motor Vehicle Skills is targeted at learners who wish to gain employment within the motor vehicle industry.



Entry Requirements

Learners must be at least 16 years old.

Progression

The OCN NI Level 2 Diploma in Motor Vehicle Skills will enable learners to progress to higher level qualifications including a Level 3 Apprenticeship, Level 3 Further Education or into employment.

Qualification Support

A Qualification Support pack is available for OCN NI centres within the login area of the OCN NI website (<u>https://www.ocnni.org.uk/my-account/</u>), which includes additional support for teachers, eg planning and assessment templates, guides to best practice, etc.

Delivery Languages

This qualification is available in English only at this time. If you wish to offer this qualification in Welsh or Irish (Gaeilge) then please contact OCN NI who will review demand and provide as appropriate.



Centre Requirements for Delivering the Qualification

Centre Recognition and Qualification Approval

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

Centre Staffing

Centres are required to have the following roles in place as a minimum, although a member of staff may hold more than one role*:

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

*Note: A person cannot be an internal verifier for their own assessments.

Tutors

Tutors delivering the qualification should be occupationally competent, qualified to at least one level higher than the qualification, and have a minimum of three years' relevant experience in the motor vehicle industry.

Assessors

The qualification is assessed within the centre and is subject to OCN NI's quality assurance processes. Units are achieved as outlined within each unit's Assessment Requirements and Assessment Guidance.

Assessors must:

- be occupationally competent, qualified to at least one level higher than the qualification and have a minimum of three years' relevant experience in the motor vehicle industry
- · have direct or related relevant experience in assessment
- assess all assessment tasks and activities



Internal Verification

OCN NI qualifications must be scrutinised through the centre's internal quality assurance processes as part of the recognised centre agreement with OCN NI. The centre must appoint an experienced and trained centre internal verifier whose responsibility is to act as the internal quality monitor for the verification of the delivery and assessment of the qualifications.

Internal Verifiers must:

- have at least three years' occupational experience in the area they are internally verifying
- attend OCN NI's internal verifier training if not already completed

Internal verifiers are required to:

- support tutors and assessors
- sample assessments according to the centre's sampling strategy
- ensure tasks are appropriate to the level being assessed
- maintain up-to-date records supporting the verification of assessment and learner achievement



Structure and Content

OCN NI Level 2 Diploma in Motor Vehicle Skills

Total Qualification Time (TQT) for this qualification: Guided Learning Hours (GLH) for this qualification: 600 hours 480 hours

The learner must successfully complete all mandatory units – 48 credits, <u>plus all units from</u> <u>one of the pathways ie, construction plant, land based, heavy vehicle, light vehicle or</u> <u>auto electrical – total of 60 credits.</u>

Unit Reference Number	OCN NI Unit Code	Unit Title	Credit Value	GLH	Level
	Gro	oup A – Mandatory units			
<u>F/650/7623</u>	CBG263	Health and Safety in the Motor Vehicle Industry	5	40	Two
<u>H/650/7624</u>	CBG264	Motor Vehicle Tools, Equipment and Consumable Materials	4	32	Two
<u>J/650/7625</u>	CBG265	Brake System Operation and Components	6	48	Two
<u>K/650/7626</u>	CBG266	Steering System Operation and Components	5	40	Two
<u>L/650/7627</u>	CBG267	Electrical Circuit Operation and Components	6	48	Two
<u>M/650/7628</u>	CBG268	Engine Operation and Components	8	64	Two
<u>R/650/7629</u>	CBG269	Engine Lubrication and Cooling Systems Operation and Components	5	40	Two
<u>A/650/7630</u>	CBG270	Transmissions System Operation and Components	5	40	Two
<u>D/650/7631</u>	CBG271	Practical Motor Vehicle Project	4	32	Two



	Group B – Construction Plant units				
<u>F/650/7632</u>	CBG272	Hydraulic System, Pneumatic Braking System Operation and Components	4	32	Two
<u>J/650/7634</u>	CBG273	Small Plant Equipment, Tracks Operation and Components	5	40	Two
<u>K/650/7635</u>	CBG274	Thermal Joining and Cutting Processes	3	24	Two
	Gro	up C – Land Based units			
<u>F/650/7632</u>	CBG272	Hydraulic System, Pneumatic Braking System Operation and Components	4	32	Two
<u>K/650/7635</u>	CBG274	Thermal Joining and Cutting Processes	3	24	Two
<u>L/650/7636</u>	CBG275	Servicing Cutting and Mowing Equipment	5	40	Two
	Grou	ıp D – Heavy Vehicle unit	S		
<u>F/650/7632</u>	CBG272	Hydraulic System, Pneumatic Braking System Operation and Components	4	32	Two
<u>H/650/7642</u>	CBG276	Suspension System Components and Maintenance	6	48	Two
<u>J/650/7643</u>	CBG277	Electric and Hybrid Vehicle Safety and Awareness	2	16	Two
	Gro	up E – Light Vehicle units	;		
<u>K/650/7644</u>	CBG278	Wheel and Tyre Construction and Maintenance	4	32	Two
<u>H/650/7642</u>	CBG276	Suspension System Components and Maintenance	6	48	Two
<u>J/650/7643</u>	CBG277	Electric and Hybrid Vehicle Safety and Awareness	2	16	Two



Group F – Auto Electric units					
<u>L/650/7645</u>	CBG279	Locate and Correct Vehicle Electrical Faults	6	48	Two
<u>M/650/7646</u>	CBG280	Remove and Replace Vehicle Electrical Wiring and Components	6	48	Two



Units

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Title			Health and Safety in the Motor Vehicle Industry	
	Level Credit Value		Two	
			5	
	ded Learning Hours (GLH)		40 CPC262	
	NI Unit Code		CBG263	
	Reference No		F/650/7623	
	n Direct Code	4	XS1	
requ			arner to understand relevant health and safety ple maintenance and repair activities in the motor	
Lea	rning Outcomes		Assessment Criteria	
	Know health and safety requ information and legislation in industry.		 1.1. Describe health and safety legislation relevant to the motor vehicle industry including: a) employer and employee responsibilities under the Health and Safety at Work (NI) Order 1978 b) roles and responsibilities of the Health and Safety Executive in Northern Ireland c) Control of Substances Hazardous to Health Regulations (COSHH) d) Reporting Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) e) Personal Protective Equipment regulations (PPE) f) correct method of disposing waste 1.2. Identify common hazards and risks when working in the motor vehicle industry. 1.3. Identify and locate different signs, safety information and warning notices used in the motor vehicle environment. 	
	Recognise the appropriate m techniques and the safe use		2.1. Illustrate safe manual handling techniques and common manual handling equipment used in the motor vehicle industry.	
	Know about fire prevention a procedures.	nd emergency	 3.1. Identify three elements that produce a fire. 3.2. Identify different types of fire extinguisher, fire prevention equipment and their uses. 3.3. Describe the procedures to be followed in an emergency and the evacuation of the premises. 	
Ass	essment Guidance			
	following assessment methoria are fully covered.	d/s may be used to	ensure all learning outcomes and assessment	
Ass	essment Method	Definition	Possible Content	
Portfolio of evidence A collection of do containing work u be assessed as e meet required ski OR A collection of do containing work t		be assessed as e meet required ski OR A collection of do	ndertaken to vidence toLearner log/diary Peer notesIls outcomesRecord of observation Record of discussioncumentsRecord of discussion	



	learner's progression through the course	
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



Materials Materials Level Two Credit Value 4 Guided Learning Hours (GLH) 32 OCN NI Unit Code CBG254 Unit purpose and aim(s): This unit will enable the learner to understand and develop skills when us motor vehicle tools, equipment and consumable materials. Learning Outcomes Assessment Criteria 1. Know different motor vehicle tools and equipment used in maintenance and repair. 1.1. Identify different consumable materials is and the use of each. 2. Know different motor vehicle consumable materials used in maintenance and repair. 1.1. Identify different consumable materials is and the use of each. 3. Be able to select, check and use motor vehicle consumable materials used in motor vehicle maintenance and repair. 3.1. Select, check and use motor vehicle consumable materials used in maintenance and repair. 4. Be able to select and use motor vehicle consumable materials for maintenance and repair. 3.1. Select, check and use motor vehicle consumate materials to motor vehicle consumate materials for motor vehicle maintenance and repair. 5. Be able to interpret vehicle engineer threads and drill materials for motor vehicle maintenance and repair. 4.1. Select and use wetwent threads and threads and drill materials for motor vehicle maintenance and repair. Assessment Guidance A collection of documents containing work undertaken to be assessed as evidence to meet required skil					
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E-assessment	The use of information technology to assess learners' work	Electronic portfolio E-tests
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Title	Brake System Operation and Components
Level	Тwo
Credit Value	6
Guided Learning Hours (GLH)	48
OCN NI Unit Code	CBG265
Unit Reference No	J/650/7625
Learn Direct Code	XS1

Unit purpose and aim(s): This unit will enable the learner to develop knowledge and skills associated with brake systems operations and components.

Le	arning Outcomes	Assessment Criteria
1.	Know the construction, function and operation of motor vehicle braking systems and components.	 1.1. Describe the construction and function of braking systems and components. 1.2. Describe how to remove, dismantle, repair and reinstate braking systems and components. 1.3. Describe the effects that heat can have on braking efficiency and components.
2.	Be able to perform service and repair operations on motor vehicle braking systems and components.	 2.1. Identify braking systems, types and associated components. 2.2. Perform tests, remove, dismantle, repair and reinstate braking systems to meet manufacturers, technical and legislative compliance. 2.3. Identify and report on braking system condition following tests performed in AC

Assessment Guidance

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

2.2.

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



Title		Steering Syste	em Operation and Components	
Level		Two		
Credit Value			5	
Guided Learning Hours (GLH)		40		
OCN NI Unit Code		CBG266		
Unit Reference No		K/650/7626		
Learn Direct Code		XS1		
Unit purpose and aim(s): This un with steering system operations		arner to develo	p knowledge and skills associated	
Learning Outcomes		Assessment		
 Know the construction, function and operation of motor vehicle steering systems and components. 		 Describe the working principles of steering systems and their application. Describe the types, construction and function of steering system components. Describe the principles and geometry of steering systems. Describe how to remove, dismantle, reassemble and replace steering system components. Outline the methods of checking and adjusting steering geometry. 		
 Be able to perform service operations on motor vehicle steering systems. 		 2.1. Remove, dismantle, reassemble, and reinstate steering systems to meet manufacturer's, technical and legislative compliance. 2.2. Using appropriate tools and equipment, check and set steering geometry. 2.3. Identify and rectify the cause of steering faults. 		
Assessment Guidance				
The following assessment method/s may be used to ensure all learning outcomes and assessment criteria are fully covered.			rning outcomes and assessment	
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	throughout the course The use of information technology to assess learners' work		Electronic portfolio E-tests	



Title	Electrical Circuit Operation and Components
Level	Two
Credit Value	6
Guided Learning Hours (GLH)	48
OCN NI Unit Code	CBG267
Unit Reference No	L/650/7627
Learn Direct Code	XS1
<i>Unit purpose and aim(s):</i> This unit will enable the leavith electrical circuit operations and components.	arner to develop knowledge and skills associated
Learning Outcomes	Assessment Criteria
 Know the construction, function and operation of motor vehicle electrical systems, circuits and components. 	 Identify electrical circuits and components and their function from wiring diagrams and visual recognition. Summarise Ohm's law, its application and principles. Compare the specification, safe maintenance and charging of different types of batteries. Describe the principles, construction and function of electrical circuits and components. Describe how to remove, dismantle, test, verify, repair and reinstate electrical circuits and components. Outline possible risks posed to electrical systems and components by other activities or incidents.
 Be able to perform service and repair operations on motor vehicle electrical systems and components. 	 2.1. Perform tests using equipment and practices to measure and verify the correct operation of electrical systems and components. 2.2. Identify and rectify faults in electrical systems and components maintaining the integrity of electrical systems. 2.3. Remove, dismantle, repair and reinstate electrical components and circuits to manufacturer's specifications and standards.

Assessment Guidance

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



Title		Engine Operation and Components	
Level		Two	
Credit Value		8	
Guided Learning Hours (GLH)		64	
OCN NI Unit Code		CBG268	
Unit Reference No		M/650/7628	
Learn Direct Code		XS1	
		arner to develo	p knowledge and skills associated
with engine operations and com	oonents.		
Learning Outcomes		Assessment	
 Know the construction, function and operation of two stroke, four stroke spark and compression ignition engines and components. 		 Describe the types, construction and operating principles of two stroke, four stroke spark and compression ignition engines. Describe the function and types of two stroke, four stroke spark and compression ignition engine components. Describe engine features and purpose. Describe how to remove, dismantle, repair and reinstate engines and components. Describe engine starting and stopping procedures. Identify fuel systems and components used in engines. 	
 Be able to perform service and repair procedures on engines and their components. 		 2.1. Identify engine types and their components. 2.2. Remove, dismantle, repair and reinstate ancillary engine components and sub- assemblies to meet manufacturers' technical and legislative compliance. 	
Assessment Guidance			
The following assessment methor criteria are fully covered.	od/s may be used to	ensure all lear	ning outcomes and assessment
Assessment Method	Definition Possible Content		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



Title			ation and Cooling Systems I Components	
Level		Two		
Credit Value	5			
Guided Learning Hours (GLH)		40		
OCN NI Unit Code		CBG269		
Unit Reference No		R/650/7629		
Learn Direct Code		XS1		
Unit purpose and aim(s): This un with engine lubrication and coolir			o knowledge and skills associated ents.	
Learning Outcomes		Assessment	Criteria	
 Know the construction and function of motor vehicle cooling and lubrication systems and components. Be able to perform service and repair operations on motor vehicle cooling and lubrication systems. 		 Outline the reasons and methods for the control of temperature in vehicle applications. Describe the causes and symptoms of insufficient cooling and lubrication. Describe the fundamental operating principles of lubrication and cooling systems in engines. Outline the reasons for lubrication and cooling systems in engines. Describe how to drain, dismantle, repair, reinstate and test cooling and lubrication systems. Identify different types of cooling and lubrication systems and components. Identify different types of coolants and lubrications. Perform tests, drain, dismantle, repair, and reinstate cooling and lubrication systems to meet manufacturers' technical and legislative 		
Assessment Guidance		compliar		
The following assessment metho criteria are fully covered.	d/s may be used to	ensure all lear	ning outcomes and assessment	
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



Title		Transmissions System Operation and Components		
Level		Two	Тwo	
Credit Value		5		
Guided Learning Hours (GLH)		40		
OCN NI Unit Code		CBG270		
Unit Reference No		A/650/7630		
Learn Direct Code		XS1		
with transmissions system oper			o knowledge and skills associated	
Learning Outcomes		Assessment	Criteria	
1. Know different transmissions and gearboxes.		 Describe the types, construction, characteristics and operating principles of transmissions and gearboxes. Describe the drive path through a mechanical transmission and components using manufacturer's schematic drawings. 		
2. Know how to remove, repa	ir and reinstate		how to remove, dismantle, repair	
transmissions. 3. Know how to identify mech	anical		state transmissions and components. how to identify mechanical	
transmission faults.			sion faults.	
 Be able to perform service and repair operations on mechanical transmissions. 		 4.1. Remove, dismantle, repair and reinstate transmission assemblies and components to manufacturers specifications and standards. 4.2. Identify and report faults in mechanical transmission assemblies and components. 		
Assessment Guidance				
The following assessment meth criteria are fully covered.	od/s may be used to	o ensure all lear	ning outcomes and assessment	
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 inform technology to ass work	nation	Electronic portfolio E-tests	



Title	Practical Motor Vehicle Project		
Level	Тwo		
Credit Value	4		
Guided Learning Hours (GLH)	32		
OCN NI Unit Code	CBG271		
Unit Reference No	D/650/7631		
Learn Direct Code	XS1		
Unit purpose and aim(s): This unit will enable the learner appropriate industry skills and knowledge.	to undertake a motor vehicle project demonstrating		
Learning Outcomes	Assessment Criteria		
 Be able to research, develop and present solutions for a motor vehicle project. 	 1.1. Research and develop a minimum of two solutions for a given motor vehicle project considering: a) suitable sources of technical information b) inspection procedures c) health and safety requirements d) legal requirements e) skills required 1.2. Present, evaluate and justify the solutions identified in AC 1.1 including costs, timeframe and resources required. 		
2. Be able to carry out a motor vehicle project.	 2.1. Carry out the motor vehicle solution justified in AC1.2 to include the following: a) completion of a risk assessment ensuring conformity to operating specification and legal requirements b) completion of a project plan including timeframes c) appropriate use of tools and equipment required for testing d) Personal Protective Equipment (PPE) required 		
3. Be able to assess completed motor vehicle project.	 3.1. Assess own motor vehicle project carried out in AC2.1 considering: a) possible areas for improvement b) accurately complete appropriate work records c) recommend suitable and justifiable cost effective repairs d) record and report any additional faults identified during inspection 		

Delivery Guidance

This unit must be delivered last and will simulate or be an 'on the job activity'. Learners will be given an opportunity to research the appropriate materials, tools and layouts to be submitted through a preassessment report. You must be observed by your assessor successfully carrying out at least one of the tasks listed below:

- a) Pre-MOT/PSV test inspection
- b) Safety inspection on equipment/machinery
- c) Post repair inspection



Assessment Guidance

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



Title		1	re Construction and Maintenance
Level	Тwo		
Credit Value		4	
Guided Learning Hours (GLH)		32	
OCN NI Unit Code		CBG278	
Unit Reference No		K/650/7644	
Learn Direct Code		XS1	
Unit purpose and aim(s): This with wheel and tyre construction		arner to develo	p knowledge and skills associated
Learning Outcomes		Assessment	Criteria
1. Know how wheels and tyre	es are constructed.	on comr	the types of tyres and wheels used non vehicles. the construction of radial and cross
2. Know wheel and tyre term	inology.	2.1. Describe marking	e with examples the different s and terminology associated with wheels and tyres.
3. Know how to carry out rou and replacement of wheel			e how to remove, inspect and replace nd tyre system components.
 Be able to carry out routine maintenance on wheel and tyre systems. Assessment Guidance 		 4.1. Carry out routine maintenance on wheel and tyre systems to include: a) selection and use of the correct technical data, tools and equipment for wheel and tyre system maintenance b) safe removal and replacement of a wheel on a vehicle c) safe removal, inspection and replacement of a tyre d) balance of a wheel and tyre as appropriate e) safe removal and repair of a tyre 	
The following assessment met criteria are fully covered.	nod/s may be used to	o ensure all lear	ning outcomes and assessment
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 demo skill/situation sele tutor or by learne learners to practi skills and knowle	ected by the rs, to enable se and apply	Record of observation Learner notes/written work Learner log
Coursework	Research or proj	ects that	Record of observation

count towards a learner's final

outcome and demonstrate the

skills and/or knowledge gained

throughout the course

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
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Title		Electric and Hybrid Vehicle Safety and Awareness			
Level		Тwo			
Credit Value		2			
Guided Learning Hours (GLH)		16			
OCN NI Unit Code		CBG277			
Unit Reference No		J/650/7643			
Learn Direct Code		XS1			
Unit purpose and aim(s): This un vehicles including safety precaut		arner to develo	p an awareness of electric and hybrid		
Learning Outcomes		Assessment			
 Know about the types of electric and hybrid vehicles available. 		vehicles models.	now to identify electric and hybrid and give examples of current with examples alternative fuel source		
2. Be aware of the hazards are	und motor		e the hazards associated with high		
vehicle high energy electrica			electricity.		
	,		hazards that may occur when		
		connect	ng and charging electric and hybrid		
		vehicles			
3. Know how to work safely are	ound electric and		e safety precautions to be taken		
hybrid vehicles.			pproaching and working with electric		
			rid vehicles.		
			now to identify motor vehicles with		
		compon	ergy cabling and associated		
		3.3. Describe how an electric and hybrid vehicle may be safely charged using an external			
		source.			
Assessment Guidance					
The following assessment methor criteria are fully covered.	od/s may be used to	o ensure all lear	ning outcomes and assessment		
Assessment Method	Definition		Possible Content		
Portfolio of evidence	A collection of do	cuments	Learner notes/written work		
	containing work u	undertaken to	Learner log/diary		
	be assessed as e		Peer notes		
	meet required ski	ills outcomes	Record of observation		
	OR		Record of discussion		
	A collection of do				
	containing work t				
	learner's progress the course	sion uniougn			
Practical		netration of a	Record of observation		
demonstration/assignment	A practical demonstration of skill/situation selected by the		Learner notes/written work		
aomonotration/aooignment					
	tutor or by learne	rs, to enable	Learner log		
	tutor or by learne	rs, to enable	Learner log		
	tutor or by learne learners to practis skills and knowle	rs, to enable se and apply	Learner log		
Coursework	tutor or by learne learners to practi	rs, to enable se and apply dge	Record of observation		
Coursework	tutor or by learne learners to practis skills and knowle Research or proje count towards a l	rs, to enable se and apply dge ects that earner's final	Record of observation Learner notes/written work		
Coursework	tutor or by learne learners to practis skills and knowle Research or proje count towards a l outcome and den	rs, to enable se and apply dge ects that earner's final nonstrate the	Record of observation Learner notes/written work Tutor notes/record		
Coursework	tutor or by learne learners to practis skills and knowle Research or proje count towards a l outcome and den skills and/or know	rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained	Record of observation Learner notes/written work		
	tutor or by learne learners to practis skills and knowle Research or proje count towards a l outcome and den skills and/or know throughout the co	rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse	Record of observation Learner notes/written work Tutor notes/record Learner log/diary		
Coursework E-assessment	tutor or by learne learners to practis skills and knowle Research or proje count towards a l outcome and den skills and/or know throughout the co The use of inform	rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Record of observation Learner notes/written work Tutor notes/record Learner log/diary		
	tutor or by learne learners to practis skills and knowle Research or proje count towards a l outcome and den skills and/or know throughout the co	rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Record of observation Learner notes/written work Tutor notes/record Learner log/diary		



Title		Suspension System Components and Maintenance		
Level		Two		
Credit Value		6		
Guided Learning Hours (GLH)		48		
OCN NI Unit Code		CBG276		
Unit Reference No		H/650/7642		
Learn Direct Code		XS1		
	nit will enable the le	arner to develor	p knowledge and skills associated	
with suspension system compor			5	
Learning Outcomes		Assessment	Criteria	
1. Know suspension systems and components.		function suspens 1.2. Describe	and describe the purpose and of the main components used in ion systems. e the operating principles of ion systems.	
2. Know how to carry out routi	ne maintenance	2.1. Describe	e how to remove, inspect, test, and	
of suspension systems.		replace : compone	suspension systems and ents.	
 Be able to carry out routine maintenance on suspension systems. 		 3.1. Carry out routine maintenance on suspension systems to include: a) selection and use of the correct technical data, tools and equipment for suspension system maintenance b) safely inspect, remove and replace suspension system component 		
Assessment Guidance				
The following assessment methoric criteria are fully covered.	od/s may be used to	o ensure all lear	ning outcomes and assessment	
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		Record of observation Learner notes/written work Tutor notes/record Learner log/diary	
E-assessment	throughout the course The use of information technology to assess learners' work		Electronic portfolio	



Title	Hydraulic System, Pneumatic Braking System
	Operation and Components
Level	Тwo
Credit Value	4
Guided Learning Hours (GLH)	32
OCN NI Unit Code	CBG272
Unit Reference No	F/650/7632
Learn Direct Code	XS1
Unit purpose and aim(s): This unit will enable t with hydraulic systems, pneumatic braking sys	the learner to develop knowledge and skills associated stem operations and components.
Learning Outcomes	Assessment Criteria
1. Know the construction, function, and	1.1. Describe the construction and function of
operation of pneumatic braking systems.	pneumatic braking systems and components.1.2. Describe how to remove, dismantle, repair, and reinstate pneumatic braking systems and
	components. 1.3. Describe the effects that heat may have on pneumatic braking system efficiency and brake components.
	 1.4. Describe how the pressure in the pneumatic braking system is produced, stored, controlled, and distributed.
	1.5. Describe common faults found on a pneumatic braking system.
2. Be able to perform service and maintenan	
operations on pneumatic braking systems and components.	2.2. Perform tests, remove, dismantle, repair, and reinstate pneumatic braking systems to meet manufacturers, technical and legislative
	compliance in a safe and controlled manner. 2.3. Identify and report on pneumatic braking systems condition.
 Know the construction, function, and operation of pneumatic suspension syster 	 3.1. Describe the construction and function of pneumatic suspension systems and components.
	3.2. Describe how to remove, dismantle, repair, and reinstate pneumatic suspension systems
	 and components. 3.3. Describe the safety precautions that must be adhered to when working on a heavy vehicle that is fitted with pneumatic suspension.
	3.4. Describe how the pressure in the pneumatic suspension system is produced, stored, controlled, and distributed.
	3.5. Describe common faults found on a pneumatic suspension system.
4. Be able to perform service and maintenan	
operations on pneumatic suspension system	
and components.	4.2. Perform tests, remove, dismantle, repair, and
	reinstate pneumatic suspension systems to
	meet manufacturers, technical and legislative
	compliance in a safe and controlled manner.
	4.3. Identify and report on pneumatic suspension
	systems condition.



- Be able to perform service and maintenance operations on hydraulic systems and components.
- 5.1. Identify and locate hydraulic systems and components.
- 5.2. Remove dismantle, repair and reinstate hydraulic systems and components to manufacturer's specifications and factory settings.

Assessment Guidance

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



Title	Locate and Correct Vehicle Electrical Faults	
	Two	
Credit Value	6	
Guided Learning Hours (GLH)	48	
OCN NI Unit Code	CBG279	
Unit Reference No	L/650/7645	
Learn Direct Code	XS1	
Unit purpose and aim(s): This unit will enable the lear with locating and repairing vehicle electrical faults.	arner to develop knowledge and skills associated	
Learning Outcomes	Assessment Criteria	
 Know different vehicle electrical testing equipment. 	 Identify commonly used vehicle electrical test equipment. Describe how to use and operate vehicle electrical test equipment. Outline the safety checks required on tools and equipment prior to use. Outline how to measure voltage, resistance, current, and their correlation when diagnosing simple circuit faults. Outline when and where you would use voltage, ohm, amps when diagnosing simple circuit faults. Describe the operation of motors, capacitors, resistors, semi-conductors, transistors, actuatore and encourse including active or 	
	actuators and sensors including active or self-generating and passive or modulating.	
 Know how to carry out testing methods on vehicle electrical components. 3. Be able to use appropriate tools and 	 Describe common types of testing methods used to check the operation of vehicle electrical/electronic circuits and components. Use readings and calculations to determine a component's condition. Carry out tests following electrical safety operating procedures. Interpret the test results carried out in AC 2.3 to diagnose simple electrical circuit faults against vehicle manufacturer specifications. Make recommendations for rectification based upon the diagnosis of results gathered from testing procedures carried out in AC 2.4. Illustrate how to identify common faults and causes found in electrical systems and components. Explain the importance of evaluating the performance of an electrical component that has been replaced against vehicle specification. Follow procedures for the disposal of electrical components. Select and use the appropriate tools and 	
 Be able to use appropriate tools and equipment. 	 3.1. Select and use the appropriate tools and equipment necessary, according to manufacturers' requirements for carrying out vehicle electrical testing techniques and rectification activities. 3.2. Calibrate equipment to meet manufacturers and legal requirements. 	



4.	Be able to carry out vehicle electrical testing techniques and rectification activities.	4.1. 4.2.	Carry out a functionality test for given electrical systems and components. Use electrical testing methods for assessing the performance of the electrical system and components identified in AC4.1.
		4.3. 4.4.	•
5.	Be able to record information and make suitable recommendations.		Produce work records that are accurate and complete. Make justifiable recommendations for cost effective repairs. Record and report any additional faults found during testing.
As	sessment Guidance		

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			



Title		Remove and	Replace Vehicle Electrical Wiring and	
		Components		
Level		Two		
Credit Value		6		
Guided Learning Hours (GLH)		48		
OCN NI Unit Code		CBG280		
Unit Reference No		M/650/7646		
Learn Direct Code		XS1		
Unit purpose and aim(s): This up	nit will enable the le	arner to develor	o knowledge and skills associated	
with the removal and replaceme	nt of vehicle electric	al wiring and c	omponents.	
		Assessment		
Learning Outcomes		Assessment	Criteria	
 Know the components and within a vehicle electrical sy 		function	and describe the purpose and of the main electrical components /ehicle electrical systems.	
2. Know how to locate and tes			he location of the electrical	
within a vehicle electrical sy	stem.		ents to be repaired or replaced.	
			e how to construct and test various	
			components.	
			he wiring circuit for various vehicle	
			l components.	
3. Be able to carry out electric	al tests on vehicle		t electrical tests on vehicle	
components.			ents to include:	
		/	ction and use of correct technical	
			a, tools and equipment	
			te and safely test components using	
		wiring diagrams c) safely repair or replace components as		
		necessary		
Assessment Guidance				
The following assessment method/s may be used to ensure all learning outcomes and assessment				
criteria are fully covered.	od/s may be used to	o ensure all lear	ning outcomes and assessment	
chiena are fully covered.	1			
Assessment Method	Definition		Possible Content	
Portfolio of evidence	A collection of do	cuments	Learner notes/written work	
	containing work u		Learner log/diary	
	be assessed as e		Peer notes	
	meet required ski		Record of observation	
	OR		Record of discussion	
	A collection of do	cuments		
	containing work that shows the learner's progression through			
	learner's progres	sion throuah		
	learner's progres the course	sion through		
Practical	the course		Record of observation	
	the course A practical demo	nstration of a		
Practical demonstration/assignment	the course	nstration of a ected by the	Record of observation Learner notes/written work Learner log	
	the course A practical demon skill/situation selectutor or by learne	nstration of a ected by the rs, to enable	Learner notes/written work	
	the course A practical demo skill/situation sele	nstration of a ected by the rs, to enable se and apply	Learner notes/written work	
	the course A practical demon skill/situation sele tutor or by learne learners to practic	nstration of a ected by the rs, to enable se and apply dge	Learner notes/written work	
demonstration/assignment	the course A practical demon skill/situation selectutor or by learne learners to practic skills and knowle	nstration of a ected by the rs, to enable se and apply dge ects that	Learner notes/written work Learner log	
demonstration/assignment	the course A practical demo skill/situation sele tutor or by learne learners to practi skills and knowle Research or proje count towards a l outcome and dem	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the	Learner notes/written work Learner log Record of observation	
demonstration/assignment	the course A practical demo skill/situation sele tutor or by learne learners to practi skills and knowle Research or proje count towards a l	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the	Learner notes/written work Learner log Record of observation Learner notes/written work	
demonstration/assignment	the course A practical demo skill/situation sele tutor or by learne learners to practi skills and knowle Research or proje count towards a l outcome and dem	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained	Learner notes/written work Learner log Record of observation Learner notes/written work Tutor notes/record	
demonstration/assignment	the course A practical demon skill/situation selectutor or by learner learners to practic skills and knowle Research or projecount towards a loutcome and dem skills and/or know throughout the count the count the use of inform	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Learner notes/written work Learner log Record of observation Learner notes/written work Tutor notes/record	
demonstration/assignment	the course A practical demo skill/situation sele tutor or by learne learners to practi skills and knowle Research or proje count towards a l outcome and dem skills and/or know throughout the co	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Learner notes/written work Learner log Record of observation Learner notes/written work Tutor notes/record Learner log/diary	
demonstration/assignment	the course A practical demon skill/situation selectutor or by learner learners to practic skills and knowle Research or projecount towards a loutcome and dem skills and/or know throughout the count the count the use of inform	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Learner notes/written work Learner log Record of observation Learner notes/written work Tutor notes/record Learner log/diary Electronic portfolio	
demonstration/assignment	the course A practical demon skill/situation selectutor or by learner learners to practic skills and knowle Research or projecount towards a l outcome and dem skills and/or know throughout the court The use of inform technology to ass	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Learner notes/written work Learner log Record of observation Learner notes/written work Tutor notes/record Learner log/diary Electronic portfolio	
demonstration/assignment	the course A practical demon skill/situation selectutor or by learner learners to practic skills and knowle Research or projecount towards a l outcome and dem skills and/or know throughout the court The use of inform technology to ass	nstration of a ected by the rs, to enable se and apply dge ects that earner's final nonstrate the vledge gained ourse nation	Learner notes/written work Learner log Record of observation Learner notes/written work Tutor notes/record Learner log/diary Electronic portfolio	



Title		Thermal Join	ing and Cutting Processes
Level	Тwo		
Credit Value		3	
Guided Learning Hours (GLH)		24	
OCN NI Unit Code		CBG274	
Unit Reference No		K/650/7635	
Learn Direct Code		XS1	
<i>Unit purpose and aim(s):</i> This unit will enable the learner to develop knowledge and skills associated with thermal joining and cutting processes.			p knowledge and skills associated
Learning Outcomes		Assessment	Criteria
 Know how to perform therma cutting techniques. Be able to perform thermal jo cutting. 		 ferrous character procedu 1.2. Describ procedu 1.3. Describ and nor electric 1.4. Describ relevant joining t 1.5. Describ faults at 1.6. Describ engagin process 1.7. Describ use the gas heat 2.1. Identify equipme 2.2. Identify their sui 2.3. Prepare to safely 2.4. Use the thermal 2.5. Join ferr required 2.6. Identify soldered 2.7. Inspect consum 2.8. Safely s 	e material preparation and joining ires. e the techniques for joining ferrous iferrous materials using gas and welding and soldering methods. e how to select, prepare and set the t equipment to carry out welding and asks. e how to detect and correctly identify nd their causes in welded joints. e the precautions required when ing in a thermal joining and cutting e how to safely set up equipment and correct techniques for oxy-acetylene ting, cutting and joining. welding and thermal joining ent. ferrous and non-ferrous materials and
Assessment Guidance			
The following assessment methor criteria are fully covered.	d/s may be used to	ensure all lea	rning outcomes and assessment
Assessment Method	Definition Pe		Possible Content
Portfolio of evidence	A collection of documents containing work undertaken to be assessed as evidence to meet required skills outcomes OR		Learner notes/written work Learner log/diary Peer notes Record of observation Record of discussion



	A collection of documents	
	containing work that shows the learner's progression through the course	
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



Servicing Cutting and Mowing Equipment
Two
5
40
CBG275
L/650/7636
XS1

Unit purpose and aim(s): This unit will enable the learner to develop knowledge and skills associated with servicing cutting and mowing equipment.

Lea	arning Outcomes	Assessment Criteria
1.	Know the construction, function and operation of cutting and mowing equipment.	 Describe the working principles of cutting and mowing equipment and components. Describe how to dismantle, repair and reinstate cutting and mowing equipment. Describe the methods of sharpening and setting cutting mechanisms and components.
2.	Know how the performance of cutting and mowing equipment is affected by crop or product type and conditions.	 2.1. Describe the effect of crop or product type and conditions on the cutting and mowing process. 2.2. Outline how adjustments and settings effect the performance of cutting and mowing equipment.
3.	Be able to service cutting and mowing equipment.	 3.1. Identify different cutting and mowing equipment. 3.2. Dismantle, repair and reinstate cutting and mowing machinery and tools to manufacturers' specifications. 3.3. Sharpen and adjust cutting mechanisms to conform with manufacturers' specifications. 3.4. Identify faults effecting cutting performance and rectify to perform within the manufacturers' specification.

Assessment Guidance

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



Title	9	Small Plant Equipment, Tracks Operation and Components		
Lev	rel	Two		
Credit Value		5		
Guided Learning Hours (GLH)		40		
OCN NI Unit Code		CBG273		
Unit Reference No		J/650/7634		
Learn Direct Code		XS1		
	-			
Unit purpose and aim(s): This unit will enable the learner to develop knowledge and skills associated with small plant equipment and tracks operation and components.				
	arning Outcomes	Assessment Criteria		
1.	Know the construction, function and operation of small plant equipment and	1.1. Describe different layouts of small plant, tools and equipment.		
	components.	 1.2. Describe how different small plant, tools and equipment operate including: a) generators b) pneumatic and electric tools 		
		 c) cleaning equipment 1.3. Outline the uses of different types of ancillary equipment including: a) connections b) extension leads 		
		c) transformers d) water pipes		
2.	Be able to perform service and maintenance	2.1. Identify and locate small plant equipment and		
	operations on small plant equipment and components.	components. 2.2. Remove dismantle, repair and reinstate small plant equipment and components to manufacturer's specifications and factory settings.		
3.	Know the types, construction and operating principles of tracks and components.	3.1. Outline the types, construction and operating principles of tracks and associated running		
		gear and components. 3.2. Describe the types, construction and		
		 applications of tracks and tractive aids. 3.3. Outline the implications of weight distribution and transfer on tractive performance and atability. 		
		stability. 3.4. Describe the methods of removing dismantling, repairing and reinstatement of tyres and wheel assemblies, tracks, and associated running gear and components.		
4.	Be able to perform service and repair operations on tracks and components.	4.1. Remove, dismantle, repair and reinstate tracks, associated running gear and		
		components to manufacturer's specifications. 4.2. Attach, adjust and remove stability and tractive aids.		
		4.3. Identify and rectify faults relating to tracks and components.		



Assessment Guidance

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



Quality Assurance of Centre Performance

External Verification

All OCN NI recognised centres are subject to External Verification. External verification visits and monitoring activities will be conducted annually to confirm continued compliance with the conditions of recognition, review the centre's risk rating for the qualification and to assure OCN NI of the maintenance of the integrity of the qualification.

The External Verifier will review the delivery and assessment of this qualification. This will include 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 EV report and will inform OCN NI's annual assessment of centre compliance and risk. The External Verifier is appointed by OCN NI.

Standardisation

As a process, standardisation is designed to ensure consistency and promote good practice in understanding and 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 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.



Administration

Registration

A centre must register learners within 90 working days of commencement of a qualification.

Certification

Certificates will be issued to centres within 20 working days of receipt of correctly completed results marksheets. 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.

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.

Equality, Fairness and Inclusion

OCN NI has considered the requirements of equalities legislation in developing the specification for these qualifications. For further information and guidance relating to access to fair assessment and the OCN NI Reasonable Adjustments and Special Considerations policies, centres should refer to the OCN NI website.

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 2 Diploma in Motor Vehicle Skills Qualification Number: 610/2946/4

Operational start date:	15 July 2023
Operational end date:	14 July 2028
Certification end date:	14 July 2030

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