

**Core Skills Mapping Analysis (at SCQF level 3) of
ConstructionSkills Level 2 SVQ/NVQ in relationship to the
Modern Apprenticeship Framework**

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Overview

This document contains the outcome of a Core Skills mapping analysis in relation to the Level 2 SVQs and NVQs which are contained within the Construction Skills Modern Apprenticeship Framework (MAF).

This MAF was recently submitted to the Modern Apprenticeship Group (MAG) for approval. A condition of approval was that each of the awards contained within the MAF (and specific award routes wherever necessary) should be mapped against the Core Skills at an appropriate level to confirm that those Core Skills were embedded within.

The mapping analysis was carried out for four of the recently revised Core Skills at SCQF Level 3 (formerly known as Access 3) only. These were:

- Communication
- Working With Others
- Problem solving
- Numeracy

The 5th Core Skill of Information Technology (IT) was anticipated as not being embedded within the awards and hence will require separate arrangements as laid out by Construction Skills.

This report shows all of the units within the award structures. The additional units have been removed as they are not part of the award structure.

Note that Industrial Building Systems has been included in this report although it does not appear explicitly within the MAF documentation.

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Outcome

This mapping analysis shows that the following Core Skills at SCQF Level 3 are embedded within all¹ of the Level 2 SVQ/NVQ contained within the ConstructionSkills Modern Apprenticeship Framework:

- Communication
- Working With Others
- Problem solving
- Numeracy

This report shows each award and Core Skills mapping analysis over two pages, where possible, to facilitate ease of reading and understanding.

¹ The Roadbuilding award does not contain all of the required Core Skills in the Mandatory section but does when each of the optional routes are considered.

Construction Operations (Construction) Level 2

The level 2 SVQ in **Construction Operations (Construction)** at SVQ consists of a Mandatory section containing the following units:

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices

PLUS ONE OF THE FOLLOWING OPTIONAL UNITS (all option routes)

- Unit No. VR 360 Establish Work Area Protection and Safety
- Unit No. VR 365 Segregate the Area for Highways Works

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Modular Pavement Construction Option Route (three units required)

- Unit No. VR 366 Install Street Ironwork
- Unit No. VR 367 Lay Modular Pavement
- Unit No. VR 401 Set Out Secondary Dimensional Work Control

Laying Kerbs and Channels Option Route (two units required)

- Unit No. VR 368 Lay Kerbs and Channels
- Unit No. VR 401 Set Out Secondary Dimensional Work Control

Drainage Construction Option Route (three units required)

- Unit No. VR 366 Install Street Ironwork
- Unit No. VR 369 Install Mains Drainage Systems
- Unit No. VR 370 Provide Temporary Excavation Support

Structural Concreting Option Route (one unit required)

- Unit No. VR 371 Form Concrete Structures

General Construction Option Route (one unit required)

- Unit No. VR 43 Lay Domestic Drainage
- Unit No. VR 45 Place and Finish Non-specialist Concrete

Excavation and Reinstatement Option Route (three units required)

- Unit No. VR 172 Reinstatement Ground Condition
- Unit No. VR 372 Locate and Protect Utilities Apparatus and Sub-structures
- Unit No. VR 373 Excavate Holes and Trenches

General Building Operations Option Route (three units required)

- Unit No. VR 367 Lay Modular Pavement
- Unit No. VR 368 Lay Kerbs and Channels
- Unit No. VR 401 Set Out Secondary Dimensional Work Control

Construction Operations (Construction) Level 2

		Mandatory units			
		VR01	VR02	VR360	VR365
Comms	1	X	X	X	X
	2		X	X	X
	3		X	X	X
WVO	1		X	X	X
	2			X	X
PS	1			X	X
	2			X	X
	3			X	X
Num	1			X	X
	2			X	X
	3			X	X
	4			X	X

Formwork (Construction) Level 2

MANDATORY UNITS

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources
- Unit No. VR 509 Fabricate and Maintain Timber and Proprietary Formwork Systems
- Unit No. VR 510 Erect and Strike Timber and Proprietary Formwork

Formwork (Construction) Level 2

		Mandatory units				
		VR01	VR02	VR03	VR509	VR510
Comms	1	X	X	X	X	X
	2		X	X	X	
	3		X	X	X	X
WVO	1		X	X	X	X
	2			X	X	X
PS	1			X	X	X
	2			X	X	X
	3			X	X	X
Num	1			X	X	X
	2			X	X	X
	3			X	X	X
	4			X	X	

Highways Maintenance (Construction) Level 2

MANDATORY UNITS (all option routes)

Unit No. VR 01 Conform to General Workplace Safety

Unit No. VR 02 Conform to Efficient Work Practices

PLUS ONE OF THE FOLLOWING OPTIONAL UNITS (all option routes)

Unit No. VR 360 Establish Work Area Protection and Safety

Unit No. VR 365 Segregate the Area for Highways Works

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Modular Pavement Construction Option Route (four units required)

Mandatory Units

Unit No. VR 366 Install Street Ironwork

Unit No. VR 367 Lay Modular Pavement

Unit No. VR 401 Set Out Secondary Dimensional Work Control

Laying Kerbs and Channels Option Route (three units required)

Mandatory Units

Unit No. VR 368 Lay Kerbs and Channels

Unit No. VR 401 Set Out Secondary Dimensional Work Control

Drainage Construction Option Route (four units required)

Mandatory Units

Unit No. VR 366 Install Street Ironwork

Unit No. VR 369 Install Mains Drainage Systems

Unit No. VR 370 Provide Temporary Excavation Support

Excavation Operations Option Route (four units required)

Mandatory Units

Unit No. VR 372 Locate and Protect Utilities Apparatus and Sub-structures

Unit No. VR 373 Excavate Holes and Trenches

Unit No. VR 374 Reinstate Excavation and Highway Surfaces

Flexible Pavement Construction Option Route (four units required)

Mandatory Units

Unit No. VR 366 Install Street Ironwork

Unit No. VR 375 Lay Flexible Pavement

Unit No. VR 401 Set Out Secondary Dimensional Work Control

Shallow Drainage Installation Option Route (three units required)

Mandatory Units

Unit No. VR 43 Lay Domestic Drainage

Unit No. VR 366 Install Street Ironwork

Concrete Operations Option Route (three units required)

Mandatory Units

Unit No. VR 45 Place and Finish Non-specialist Concrete

Unit No. VR 250 Erect and Dismantle Access/Working Platforms

Vehicle Fencing Option Route (three units required)

Mandatory Units

Unit No. Fe1 Prepare Site for Fence Installation

Unit No. Fe4 Install Vehicle Safety fencing

Highways Maintenance (Construction) Level 2

		Mandatory units			
		VR01	VR02	VR360	VR365
Comms	1	X	X	X	X
	2		X		
	3		X		
WVO	1		X	X	X
	2				
PS	1			X	X
	2				
	3				
Num	1			X	X
	2			X	X
	3			X	X
	4				

Plant Operations (Construction) Level 2

MANDATORY CORE UNITS (all option routes)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 386 Prepare Plant or Machinery for Operational Performance

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Plant Operator Option Route (one unit from the following required)

- Unit No. VR 387 Operate Plant or Machinery to Lift and Transfer Loads
- Unit No. VR 388 Operate Plant or Machinery to Extract
- Unit No. VR 389 Operate Plant or Machinery to Excavate
- Unit No. VR 390 Operate Plant or Machinery to Construct and Form
- Unit No. VR 391 Operate Plant or Machinery to Receive and Transport Loads
- Unit No. VR 392 Operate Plant or Machinery for Accessing
- Unit No. VR 393 Operate Plant or Machinery to Lay and Distribute
- Unit No. VR 394 Operate Plant or Machinery to Compact
- Unit No. VR 395 Operate Plant or Machinery to Process

Slinger Signaller/Loader Securer Option Route (both units required)

- Unit No. VR 396 Direct and Guide the Movement of Plant or Machinery
- Unit No. VR 397 Arrange and Secure Loads

Road Rail Option Route (One unit from the Plant Operator option route plus the following unit required)

- Unit No. VR 398 Operate Road Rail Plant

Attachments Option Route (One unit from the Plant Operator option route plus the following unit required)

- Unit No. VR 399 Operate Ancillary Equipment

Plant Operations (Construction) Level 2

		Mandatory units		
		VR01	VR02	VR386
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Roadbuilding (Construction) Level 2

MANDATORY CORE UNITS (all option routes)

Unit No. VR 01 Conform to General Workplace Safety

Unit No. VR 02 Conform to Efficient Work Practices

PLUS ONE OF THE FOLLOWING OPTIONAL UNITS (all option routes)

Unit No. VR 360 Establish Work Area Protection and Safety

Unit No. VR 365 Segregate the Area for Highways Works

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

1. Bituminous Paving (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

2. Concrete Paving (machine) Option Route (two units required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

Unit No. VR 401 Set Out Secondary Dimensional Work Control

3. Micro Surfacing (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

4. Surface Dressing (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

5. Planing (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

6. Road Recycling (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

7. Soil Stabilisation (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

8. Surface Rertexturing (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

9. Pavement Marking (machine) Option Route (one unit required)

Unit No. VR 376 Operate and Control Operations of Road Plant or Machinery

10. Pavement Marking (manual operations) Option Route (one unit required)

Unit No. VR 377 Apply and Remove Pavement Markings Manually

11. Pavement Marking (road studs) Option Route (one unit required)

Unit No. VR 378 Install and Remove Permanent Road Studs

Roadbuilding (Construction) Level 2

		Mandatory Units		Unit from each of the 11 optional Routes		
				1-9	10	11
		VR01	VR02	VR376	VR377	VR378
Comms	1	X	X	X	X	X
	2		X	X	X	X
	3		X	X	X	X
WVO	1		X	X	X	X
	2			X	X	X
PS	1			X	X	X
	2			X	X	X
	3			X	X	X
Num	1			X	X	X
	2			X	X	X
	3			X	X	X
	4			X	X	X

Site Logistics Operations Level 2

MANDATORY CORE UNITS

- Unit No. PR 01 Contribute to an Efficient and Effective Work Environment
- Unit No. PR 02 Contribute to Health and Safety in the Workplace
- Unit No. PR 14 Operate Powered Tools and Equipment for Routine and Predictable Requirements

PLUS EITHER

General Option (any three units from six)

- Unit No. CR 03 Prepare Resources and Segregate the Area for Highway Works
- Unit No. CR 05 Provide For and Maintain the Security of the Work and the Surrounding Environment
- Unit No. CR 17 Erect and Dismantle Basic Working Platforms
- Unit No. CR 18 Operate and Control Powered Plant and Machinery
- Unit No. MR 356 Control Vehicular Traffic In and Around Construction Sites
- Unit No. PR 07 Carry Out Slinging and Signalling for the Movement of Loads

OR

Plant Option (any three units from six)

- Unit No. CR 03 Prepare Resources and Segregate the Area for Highway Works
- Unit No. CR 18 Operate and Control Powered Plant and Machinery
- Unit No. PR 03 Operate Specialised Plant and Machinery to Performance Requirements (Lifting and Transferring)
- Unit No. PR 07 Carry Out Slinging and Signalling for the Movement of Loads
- Unit No. PR 10 Lift, Transfer and Position Loads
- Unit No. PR 16 Set Up and Utilise Powered Access Equipment

Site Logistics Operations Level 2

		Mandatory units		
		PR01	PR02	PR14
Comms	1	X	X	X
	2	X	X	X
	3	X	X	X
WVO	1	X	X	X
	2	X	X	X
PS	1	X	X	X
	2	X	X	X
	3	X	X	X
Num	1			X
	2			X
	3			X
	4			X

Accessing Operations and Rigging (Construction) Level 2

MANDATORY CORE UNITS (all option routes)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Scaffolding Option Route (all units required)

Mandatory units:

- Unit No. VR 247 Erect and Dismantle Basic Independent and Birdcage Scaffolds
- Unit No. VR 248 Erect and Dismantle Basic Scaffold Towers
- Unit No. VR 249 Erect and Dismantle Basic Cantilever Scaffolds
- Unit No. VR 251 Erect and Dismantle Basic Pavement and Roof Scaffolds
- Unit No. VR 252 Utilise Provision for Fall Arrest

Steeplejacking Option Route (all units required)

Mandatory units:

- Unit No. VR 120 Carry Out Site Measurements and Evaluations
- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 253 Erect and Dismantle Basic Steeplejack Scaffolds
- Unit No. VR 254 Erect and Remove Specialist Access Equipment
- Unit No. VR 255 Install Temporary Lifting and Suspension Apparatus

Lightning Conductor Engineering Option Route (all units required)

Mandatory units:

- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 254 Erect and Remove Specialist Access Equipment
- Unit No. VR 256 Install Lightning Conductor Systems
- Unit No. VR 257 Commission Lightning Conductor Installation Systems
- Unit No. VR 372 Locate and Protect Utilities Apparatus and Sub-structures

Rigging – Broadcast, Film and Video Option Route (all units required)

Mandatory units:

- Unit No. VR 247 Erect and Dismantle Basic Independent and Birdcage Scaffolds
- Unit No. VR 248 Erect and Dismantle Basic Scaffold Towers
- Unit No. VR 249 Erect and Dismantle Basic Cantilever Scaffolds
- Unit No. VR 251 Erect and Dismantle Basic Pavement and Roof Scaffolds
- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 258 Provide Safeguards and Environmental Protection

Rigging – Suspended Access Equipment Option Route (mandatory units plus one unit from group A and one unit from group B required)

Mandatory units:

- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 255 Install Temporary Lifting and Suspension Apparatus
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

Plus Group A (one unit required):

Temporary:

- Unit No. VR 254 Erect and Remove Specialist Access Equipment

Permanent:

- Unit No. VR 259 Install Suspended Travelling Access Equipment

Plus Group B (one unit required):

- Unit No. VR 248 Erect and Dismantle Basic Scaffold Towers
- Unit No. VR 299 Plant or Machinery Operator Maintenance
- Unit No. VR 360 Establish Work Area Protection and Safety

Safety Net Rigging Option Route (all units required)

Mandatory units:

- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 261 Install and Remove Safety Net Rigging
- Unit No. VR 392 Operate Plant or Machinery for Accessing

Fall Arrest Option Route (all units required)

Mandatory units:

- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 262 Install and Set Up Provision for Fall Arrest
- Unit No. VR 392 Operate Plant or Machinery for Accessing

Offshore Scaffolding Option Route (mandatory units plus one optional unit required)

Mandatory units:

- Unit No. VR 247 Erect and Dismantle Basic Independent and Birdcage Scaffolds
- Unit No. VR 248 Erect and Dismantle Basic Scaffold Towers
- Unit No. VR 249 Erect and Dismantle Basic Cantilever Scaffolds
- Unit No. VR 252 Utilise Provision for Fall Arrest

Plus optional units (one unit from the following)

- Unit No. VR 251 Erect and Dismantle Basic Pavement and Roof Scaffolds
- Unit No. VR 255 Install Temporary Lifting and Suspension Apparatus
- Unit No. VR 263 Secure and Use Rope Access Arrangements

Stage, Theatre and Arena Option Route (mandatory units plus one unit from group A and one unit from group B required)

Mandatory units:

- Unit No. VR 250 Erect and Dismantle Access/Working Platforms
- Unit No. VR 252 Utilise Provision for Fall Arrest
- Unit No. VR 255 Install Temporary Lifting and Suspension Apparatus
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

Plus group A (one unit from the following)

- Unit No. VR 247 Erect and Dismantle Basic Independent and Birdcage Scaffolds
- Unit No. VR 248 Erect and Dismantle Basic Scaffold Towers

Plus group B (one unit from the following)

- Unit No. VR 254 Erect and Remove Specialist Access Equipment
- Unit No. VR 263 Secure and Use Rope Access Arrangements
- Unit No. VR 392 Operate Plant or Machinery for Accessing
- Unit No. R2 Operating the Automation Desk

Accessing Operations and Rigging (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Associated Industrial Services Occupations (Construction) Level 2

MANDATORY CORE UNITS

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Water Jetting Option Route

Mandatory unit:

- Unit No. VR 84 Set Up and Prepare Water Jetting Equipment

Plus one unit from the following required:

- Unit No. VR 85 Remove Materials/Deposits by Water Jetting
- Unit No. VR 86 Cut and Break Materials by Water Jetting

Façade Preservation Option Route

One unit from the following required:

- Unit No. VR 152 Clean Façade Surfaces
- Unit No. VR 153 Restore Façade Surfaces

Passive Fire Protection Option Route

Mandatory unit:

- Unit No. VR 250 Erect and Dismantle Access/Working Platforms

Plus two units from the following required:

- Unit No. VR 350 Install Fire Rated Cladding
- Unit No. VR 351 Apply Intumescent Coatings
- Unit No. VR 352 Install Fire Rated Ductwork Systems
- Unit No. VR 353 Install Fire Stopping
- Unit No. VR 354 Install Cavity Barriers
- Unit No. VR 355 Erect Fire Rated Walls and Linings
- Unit No. VR 356 Erect Fire Rated Ceiling Systems
- Unit No. VR 357 Apply Sprayed Fire Protection
- Unit No. VR 358 Install Fire Rated Timber Doorsets

Associated Industrial Services Occupations (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Cladding Occupations (Construction) Level 2

MANDATORY CORE UNITS (All Options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Roof Sheeting and Cladding Option Route

Mandatory units:

- Unit No. VR 94 Prepare Resources for Roof Sheeting and Cladding
- Unit No. VR 95 Install Roof Sheeting and Cladding Systems
- Unit No. VR 96 Install Roof Sheeting and Cladding Rainwater Goods

Plus any one unit from the following:

- Unit No. VR 97 Refurbishment of Roof Sheeting and Cladding
- Unit No. VR 98 Repair Roof Sheeting and Cladding Systems
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

Erection of Precast Concrete Cladding Option Route

Mandatory units:

- Unit No. VR 181 Erect Precast Concrete Cladding Units
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

Specialised Cladding and Rainscreen Systems Option Route

Three units from the following required:

- Unit No. VR 183 Prepare Backgrounds to Receive Wall Cladding Systems
- Unit No. VR 184 Install Wall Cladding Systems
- Unit No. VR 185 Repair Wall Cladding Systems
- Unit No. VR 186 Remove Existing Wall Cladding Systems

Stone Cladding Option Route

Mandatory units:

- Unit No. VR 191 Prepare Background Surfaces and Fixings to Receive Stone Cladding
- Unit No. VR 192 Install Stone Cladding to Solid Structures

Fabric and Membrane Cladding Option Route

Mandatory units:

- Unit No. VR 493 Prepare Resources for Fabric and Membrane Cladding
- Unit No. VR 494 Install Fabric and Membrane Cladding

Cladding Occupations (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Demolition (Construction) Level 2

MANDATORY CORE UNITS (all options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Demolition Option Route

Mandatory units:

- Unit No. VR 154 Remove Components Prior to Demolition
- Unit No. VR 155 Demolish/Dismantle Brick, Masonry and Concrete Structures

Plus two units from the following:

- Unit No. VR 156 Demolish/Dismantle Fragile Roofs and Cladding
- Unit No. VR 157 Demolish/Dismantle Timber-framed and Cladded Structures
- Unit No. VR 158 Demolish/Dismantle Steel-framed Structures

Plant Option Route

Mandatory unit:

- Unit No. VR 299 Plant or Machinery Operator Maintenance

Plus one unit from the following:

- Unit No. VR 385 Operate Plant or Machinery to Demolish
- Unit No. VR 388 Operate Plant or Machinery to Extract

Demolition (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Drilling Operations: Land Drilling Level 2

MANDATORY CORE UNITS (all options)

- UNIT D2 : Contribute to health and safety in the drilling workplace
- UNIT D4 : Set up protection and safety equipment for the drilling area
- UNIT D8 : Contribute to an efficient and effective drilling environment
- UNIT D9 : Contribute to the specified drilling programme
- UNIT D12 : Provide for and maintain the security of the work and environment surrounding the drilling area
- UNIT D14: Drill holes to drilling specification

Plus one unit from the following:

- UNIT D6 : Operate powered tools and equipment for routine and predictable drilling requirements
- UNIT D7: Carry out slinging and signalling for load movement
- UNIT D13 : Measure and set out dimensional control for the drilling requirement
- UNIT D15 : Reinstate the drilling area of operations and complete works
- UNIT D16 : Carry out routine maintenance on drilling plant and equipment

Drilling Operations: Land Drilling Level 2

		Mandatory units					
		D2	D4	D8	D9	D12	D14
Comms	1	X	X	X	X	X	X
	2	X	X	X	X	X	X
	3	X	X	X	X	X	X
WVO	1	X	X	X	X	X	X
	2	X	X	X	X	X	X
PS	1	X	X	X	X	X	X
	2	X	X	X	X	X	X
	3	X	X	X	X	X	X
Num	1				X		X
	2				X		X
	3				X		X
	4				X		X

Drilling Operations: Land Drilling Support Level 2

MANDATORY CORE UNITS

UNIT D2 : Contribute to health and safety in the drilling workplace

UNIT D4 : Set up protection and safety equipment for the drilling area

UNIT D8 : Contribute to an efficient and effective drilling environment

UNIT D9 : Contribute to the specified drilling programme

UNIT D15 : Reinstate the drilling area of operations and complete works

UNIT D16 : Carry out routine maintenance on drilling plant and equipment

Plus one unit from the following:

UNIT D6 : Operate powered tools and equipment for routine and predictable drilling requirements

UNIT D7: Carry out slinging and signalling for load movement

UNIT D11 : Receive and organise materials and equipment for the drilling activity

UNIT D13 : Measure and set out dimensional control for the drilling requirement

Drilling Operations: Land Drilling Support Level 2

		Mandatory units					
		D2	D4	D8	D9	D15	D16
Comms	1	X	X	X	X	X	X
	2	X	X	X	X	X	X
	3	X	X	X	X	X	X
WVO	1	X	X	X	X	X	X
	2	X	X	X	X	X	X
PS	1	X	X	X	X	X	X
	2	X	X	X	X	X	X
	3	X	X	X	X	X	X
Num	1				X		
	2				X		
	3				X		
	4				X		

Erection of Precast Concrete (Construction) Level 2

MANDATORY UNITS

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

PLUS ONE OF THE FOLLOWING OPTIONAL GROUPS

Flooring Option Group:

- Unit No. VR 180 Erect Precast Concrete Flooring Units

Structural Option Group:

- Unit No. VR 182 Erect Precast Concrete Structural Units

Erection of Precast Concrete (Construction) Level 2

		Mandatory Units			
		VR01	VR02	VR03	VR402
Comms	1	X	X	X	X
	2		X	X	X
	3		X	X	X
WVO	1		X	X	X
	2			X	X
PS	1			X	X
	2			X	X
	3			X	X
Num	1			X	X
	2			X	X
	3			X	X
	4			X	X

Fitted Interiors (Construction) Level 2

MANDATORY UNITS

Unit No. VR 01 Conform to General Workplace Safety
Unit No. VR 02 Conform to Efficient Work Practices
Unit No. VR 03 Move and Handle Resources
Unit No. VR 121 Install Fitted Furniture
Unit No. VR 122 Install Basic Plumbing

Fitted Interiors (Construction) Level 2

		Mandatory Units				
		VR01	VR02	VR03	VR121	VR122
Comms	1	X	X	X	X	X
	2		X	X		
	3		X	X	X	X
WVO	1		X	X	X	X
	2			X	X	X
PS	1			X	X	X
	2			X	X	X
	3			X	X	X
Num	1			X	X	X
	2			X	X	X
	3			X	X	X
	4			X	X	X

Industrial Building Systems (Construction) Level 2

MANDATORY CORE UNITS (all options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Timber Frame Erection Option Route

- Unit No. VR 289 Erect Timber Walls and Floors
- Unit No. VR 290 Erect Timber Roof Structures

Light Steel Frame Erection Option Route

- Unit No. VR 291 Erect Steel Frame Walls and Floors
- Unit No. VR 292 Erect Steel Frame Roofs

Autoclaved Aerated Concrete Frame Erection Option Route

- Unit No. VR 293 Erect Autoclaved Aerated Concrete Wall and Floor Structures
- Unit No. VR 294 Erect Autoclaved Aerated Concrete Roof Structures

Insulated Concrete Construction Option Route

- Unit No. VR 225 Place and Compact Concrete
- Unit No. VR 319 Erect Insulating Concrete Formwork

Modular/Portable Building Option Route (one unit from the following required)

- Unit No. VR 320 Install Modular Buildings
- Unit No. VR 321 Install Portable Cabins and Units

PLUS

Optional Units (two units from the following required)

- Unit No. VR 09 Install First Fixing Components
- Unit No. VR 10 Install Second Fixing Components
- Unit No. VR 122 Install Basic Plumbing
- Unit No. VR 333 Apply Paint Systems by Brush and Roller
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

Industrial Building Systems (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Insulation and Building Treatments (Construction) Level 2

MANDATORY CORE UNITS (All options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Wood Preserving and Damp-proofing Option Route (Three units required)

- Unit No. VR 444 Prepare Structure for Treatment
- Unit No. VR 445 Apply Preservation Treatment
- Unit No. VR 446 Reinststate the Structure after Treatment

Wall Tie Replacement Option Route (Three units required)

- Unit No. VR 444 Prepare Structure for Treatment
- Unit No. VR 446 Reinststate the Structure after Treatment
- Unit No. VR 447 Install Wall Ties in Existing Structures

External Wall Insulation Option Route (One unit required)

- Unit No. VR 448 Install External Wall Insulation

Cavity Wall Insulation Option Route (One unit required)

- Unit No. VR 450 Install Cavity Wall Insulation

Loft Insulation Option Route (One unit required)

- Unit No. VR 451 Install Loft Insulation

Draught-proofing Option Route (One unit required)

- Unit No. VR 452 Install Draught-proofing to Openings

Insulation and Building Treatments (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Interior Systems (Construction) Level 2

MANDATORY CORE UNITS (All Options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Ceiling Fixing Option Route

- Unit No. VR 125 Install Suspended Ceiling Systems

Partitioning Option Route

- Unit No. VR 127 Install Proprietary Partition Systems
- Unit No. VR 128 Remove and Relocate Proprietary Partition Systems

Dry Lining – Fixing Option Route

- Unit No. VR 129 Install Dry Lining Partition Systems
- Unit No. VR 130 Install Dry Linings and Encasements

Dry Lining – Finishing Option Route

- Unit No. VR 131 Finish Dry Lining Joints

Access Flooring Option Route

- Unit No. VR 133 Install Raised Access Flooring Systems
- Unit No. VR 134 Remove and Relocate Raised Access Flooring Systems

Cavity Barrier Installation Option Route

- Unit No. VR 126 Install Cavity Barriers

Interior Fixer and Sheeter Option Route

- Unit No. VR 09 Install First Fixing Components
- Unit No. VR 13 Set Up and Use Circular Saws
- Unit No. VR 129 Install Dry Lining Partition Systems
- Unit No. VR 130 Install Dry Linings and Encasements

Interior Systems (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Mastic Asphalt (Construction) Level 2

MANDATORY UNITS

Unit No. VR 01	Conform to General Workplace Safety
Unit No. VR 02	Conform to Efficient Work Practices
Unit No. VR 03	Move and Handle Resources
Unit No. VR 87	Prepare Resources for Mastic Asphalt
Unit No. VR 89	Prepare Backgrounds for Mastic Asphalt
Unit No. VR 90	Apply Mastic Asphalt
Unit No. VR 91	Repair and Maintain Mastic Asphalt Coverings

Mastic Asphalt (Construction) Level 2

		Mandatory Units						
		VR01	VR02	VR03	VR87	VR89	VR90	VR91
Comms	1	X	X	X	X	X	X	X
	2		X	X			X	X
	3		X	X	X	X	X	X
WVO	1		X	X	X	X	X	X
	2			X	X	X	X	X
PS	1			X	X	X	X	X
	2			X	X	X	X	X
	3			X	X	X	X	X
Num	1			X	X	X	X	X
	2			X	X	X	X	X
	3			X	X	X	X	X
	4			X				X

Piling Operations (Construction) Level 2

MANDATORY CORE UNITS (all options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources
- Unit No. VR 235 Contribute to the Piling Operation
- Unit No. VR 402 Slinging and Signalling the Movement of Loads

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Piling Rig Operator Route (two units required)

- Unit No. VR 299 Plant or Machinery Operator Maintenance
- Unit No. VR 390 Operate Plant or Machinery to Construct and Form

Piling Operative Route (any one unit required)

- Unit No. VR 214 Allocate and Monitor the Use of Plant and Equipment
- Unit No. VR 233 Carry Out Mud, Slurry or Fluid Plant Operations
- Unit No. VR 236 Carry Out Tremie Operations
- Unit No. VR 239 Guide Formation of Piles
- Unit No. VR 388 Operate Plant or Machinery to Extract
- Unit No. VR 400 Operate Specialised Powered Tools and Equipment

Piling Operations (Construction) Level 2

		Mandatory Units				
		VR01	VR02	VR03	VR235	VR402
Comms	1	X	X	X	X	X
	2		X	X		X
	3		X	X	X	X
WVO	1		X	X	X	X
	2			X	X	X
PS	1			X	X	X
	2			X	X	X
	3			X	X	X
Num	1			X	X	X
	2			X	X	X
	3			X	X	X
	4			X	X	X

Specialist Concrete Occupations (Construction) Level 2

MANDATORY CORE UNITS (all option routes)

Unit No. VR 01 Conform to General Workplace Safety

Unit No. VR 02 Conform to Efficient Work Practices

Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Concrete Repair Option Route

Unit No. VR 57 Survey Degraded Concrete Structures

Unit No. VR 58 Apply Materials to Repair Concrete

Unit No. VR 360 Establish Work Area Protection and Safety

Sprayed Concrete Option Route

Unit No. VR 123 Prepare Substrate for Sprayed Concrete

Unit No. VR 124 Provide Structural Support by Sprayed Concrete

Unit No. VR 360 Establish Work Area Protection and Safety

Decorative Concrete Option Route

Unit No. VR 145 Prepare Backgrounds Prior to Laying Decorative Concrete

Unit No. VR 146 Place Concrete and Produce a Decorative Finish

Unit No. VR 360 Establish Work Area Protection and Safety

Unit No. VR 366 Install Street Ironwork

Unit No. VR 401 Set Out Secondary Dimensional Work Control

Background Preparation and Profiling Option Route

Unit No. VR 359 Prepare and Profile Substrates

Unit No. VR 400 Operate Specialised Powered Tools and Equipment

Concrete Drilling and Sawing Option Route

Mandatory units:

Unit No. VR 220 Reshape Using Hand Sawing Techniques

Unit No. VR 360 Establish Work Area Protection and Safety

Plus one of the following option groups:

Group A -- Drilling:

Unit No. VR 221 Form Drill Holes or Core in the Structural Fabric

Group B -- Sawing:

Unit No. VR 222 Form Saw Cuts in Structural Fabric Material

Group C -- Drilling and Sawing:

Unit No. VR 221 Form Drill Holes or Core in the Structural Fabric

Unit No. VR 222 Form Saw Cuts in Structural Fabric Material

In Situ Flooring Option Route

Mandatory unit:

Unit No. VR 360 Establish Work Area Protection and Safety

Plus one of the following option groups:

Group A –Screed:

Unit No. VR 313 Prepare Backgrounds for Screed and Resin Floors

Unit No. VR 314 Lay Screed Floors

Group B – Resin:

Unit No. VR 313 Prepare Backgrounds for Screed and Resin Floors

Unit No. VR 315 Lay Resin Floors

Group C– Concrete Layer:

Unit No. VR 316 Prepare Areas for Concrete Flooring

Unit No. VR 317 Manual Placement of In Situ Concrete Flooring

Group D– Concrete Finisher:

Unit No. VR 316 Prepare Areas for Concrete Flooring

Unit No. VR 318 Apply Surface Finish to Concrete Flooring

Group E– Concrete Plant Operator:

Unit No. VR 393 Operate Plant or Machinery to Lay and Distribute

Specialist Concrete Occupations (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Specialist Installation Occupations (Construction) Level 2

MANDATORY CORE UNITS (All Options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Door Systems – Installation Option Route

(two units required)

- Unit No. CM 12 Install Door Systems
- Unit No. CM 13 Service and Maintain Door Systems

Door Systems – Repair Option Route

(two units required)

- Unit No. CM 13 Service and Maintain Door Systems
- Unit No. CM 14 Dismantle and Repair Door Systems

Roof Line Systems Option Route

(two units from the following four required)

- Unit No. VR 228 Remove and Repair Eaves and Verge Finishings
- Unit No. VR 229 Install Eaves, Verge and Rainwater Systems
- Unit No. VR 230 Prepare Rainwater Systems Resources
- Unit No. VR 231 Repair Rainwater Systems

Insulated Enclosures – Industrial Option Route

(covers construction of large (warehouse) insulated enclosures)

(three units required)

- Unit No. VR 125 Install Suspended Ceiling Systems
- Unit No. VR 241 Install Insulated Enclosure Floors
- Unit No. VR 242 Install Insulated Cladding Walls

Insulated Enclosures – Commercial Option Route

(covers construction of small (specialised) insulated enclosures)

(three units required)

- Unit No. CM 12 Install Door Systems
- Unit No. VR 240 Install Insulated Enclosures
- Unit No. VR 241 Install Insulated Enclosure Floors

Joint Sealant Application Option Route (three units required)

- Unit No. VR 243 Apply Sealants to Structural Fabric
- Unit No. VR 250 Erect and Dismantle Access/Working Platforms
- Unit No. VR 360 Establish Work Area Protection and Safety

Point of Purchase Option Route

(two units from the following three required)

Unit No. VR 267 Install Internal Display Systems

Unit No. VR 268 Install Display Signs

Unit No. VR 269 Install Graphic Displays

Industrial Storage Systems Option Route

(two units required)

Unit No. VR 504 Install Industrial Pallet Racking Systems

Unit No. VR 505 Install Industrial Shelving Systems

Specialist Installation Occupations (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Steelfixing Occupations (Construction) Level 2

MANDATORY UNITS

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS

OPTIONAL UNITS (any two from the following)

- Unit No. VR 164 Install Reinforcement Steel
- Unit No. VR 165 Prefabricate Reinforcement Steel
- Unit No. VR 166 Cut and Bend Reinforcement Steel to Shape

Steelfixing Occupations (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WFO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Sub-structure Work Occupations (Construction) Level 2

MANDATORY CORE UNITS (all options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Underpinning Operations Option Route (One of the following option groups required)

Excavated Underpinning Option Group

Mandatory unit:

- Unit No. VR 167 Set Out for Basic Underpinning

Plus three units from the following:

- Unit No. VR 161 Erect and Strike Formwork
- Unit No. VR 164 Install Reinforcement Steel
- Unit No. VR 168 Excavate for Underpinning
- Unit No. VR 169 Install Drypacking
- Unit No. VR 225 Place and Compact Concrete

Mini Piling Option Group

Mandatory units:

- Unit No. VR 167 Set Out for Basic Underpinning
- Unit No. VR 170 Install Mini-piles
- Unit No. VR 299 Plant or Machinery Operator Maintenance

Dewatering Option Route (One of the following option groups required)

Well Points Option Group

- Unit No. VR 486 Prepare to Install Well Point Dewatering Systems
- Unit No. VR 487 Install Well Point Dewatering Systems

Deep Wells Option Group

- Unit No. VR 488 Prepare to Install Deep Wells or Ejectors as Dewatering Systems
- Unit No. VR 489 Install Deep Well Dewatering Systems

Ejectors Option Group

- Unit No. VR 488 Prepare to Install Deep Wells or Ejectors as Dewatering Systems
- Unit No. VR 490 Install Ejector Dewatering Systems

Structural Waterproofing Option Route (All units required)

- Unit No. VR 491 Prepare Backgrounds for Structural Waterproofing
- Unit No. VR 492 Carry Out Structural Waterproofing

Ground Anchors Option Route

Mandatory units:

- Unit No. VR 360 Establish Work Area Protection and Safety
- Unit No. VR 513 Prepare to Install Ground Anchors

Plus one of the following option groups required:

Driven Option Group (one unit required)

- Unit No. VR 514 Install Mechanical Ground Anchors

Open Hole Option Group (one unit required)

- Unit No. VR 515 Install Open Hole Ground Anchors

Box Beam Post Tensioning Option Route

Mandatory units:

- Unit No. VR 360 Establish Work Area Protection and Safety
- Unit No. VR 518 Prepare to Install Post Tensioning System as Sub-structural Repair
- Unit No. VR 519 Install Post Tensioning System as Sub-structural Repair

Chemical Grouting Option Route

Mandatory units:

- Unit No. VR 360 Establish Work Area Protection and Safety
- Unit No. VR 520 Prepare for Chemical Grouting and Soil Injection
- Unit No. VR 521 Carry Out Chemical Grouting and Soil Injection

Preformed Piles Option Route

Mandatory units:

- Unit No. VR 360 Establish Work Area Protection and Safety
- Unit No. VR 522 Prepare to Install Preformed Piles
- Unit No. VR 523 Install Preformed Piles

Sub-structure Work Occupations (Construction) Level 2

		Mandatory Units		
		VR01	VR02	VR03
Comms	1	X	X	X
	2		X	X
	3		X	X
WVO	1		X	X
	2			X
PS	1			X
	2			X
	3			X
Num	1			X
	2			X
	3			X
	4			X

Thermal Insulation (Construction) Level 2

MANDATORY CORE UNITS (All Options)

- Unit No. VR 01 Conform to General Workplace Safety
- Unit No. VR 02 Conform to Efficient Work Practices
- Unit No. VR 03 Move and Handle Resources
- Unit No. VR 322 Apply Insulation and Finishes to Cylindrical and Flat Surfaces

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Fabricate Protection Option Route

- Unit No. VR 323 Fabricate Sheet Metal Insulation Protection from Existing Templates

Fit Protection Option Route

- Unit No. VR 324 Fit Sheet Metal Insulation Protection

Thermal Insulation (Construction) Level 2

		Mandatory Units			
		VR01	VR02	VR03	VR322
Comms	1	X	X	X	X
	2		X	X	
	3		X	X	X
WVO	1		X	X	X
	2			X	X
PS	1			X	X
	2			X	X
	3			X	X
Num	1			X	X
	2			X	X
	3			X	X
	4			X	X