Recommended Qualification Structure for Construction and Civil Engineering Operations (Construction) Level 2

This structure has been recommended by employers and stakeholders from the above occupational area for organisations to form the basis of academic capability and competence outcomes. Qualifications with a competence outcome at the above level must have units derived from the following National Occupational Standards (NOS) and consist of the mandatory/optional groups as stated for the individual option route.

MANDATORY (all option routes)

VR641 v2	Conform to general workplace health, safety and welfare
VR642 v1	Conform to productive work practices
VR360 v4	Install, maintain and remove work area protection and safety equipment

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Construction and Civil Engineering Operations Option Routes:

Modular Pavement Construction Option Route (Total 6) Mandatory

VR367 v3	Lay modular pavement
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment
VR401 v2	Set out secondary dimensional work control

Laying Kerbs and Channels Option Route (Total 6) Mandatory

VR368 v3	Lay preformed kerbs and channels
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment
VR401 v2	Set out secondary dimensional work control

Drainage Construction Option Route (Total 6) Mandatory

VR370 v4	Install, maintain and remove temporary excavation support
VR401 v2	Set out secondary dimensional work control
VR639 v3	Install drainage

Structural Concreting Option Route (Total 6) Mandatory

VR371 v3	Pour concrete to form structures
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment

Plus one other from the Construction and Civil Engineering Operations option list below



Non-structural Concreting Option Route (Total 6)

Mandatory

VR45 v3 Place and finish non-specialist concrete
VR640 v2 Erect and strike proprietary formwork

Plus one other from the Construction and Civil Engineering Operations option list below

Construction Operations Option Route (Total 6)

Mandatory

VR643 v1 Move, handle and store resources

Plus optional (one from the following)

VR371 v3 Pour concrete to form structures

VR639 v3 Install drainage

Plus one other from the Construction and Civil Engineering Operations option list below

General Construction Option Route (Total 4)

Optional (one from the following)

VR45 v3 Place and finish non-specialist concrete

VR639 v3 Install drainage

Excavation and Reinstatement Option Route (Total 7)

Mandatory

VR172 v2 Reinstate ground condition

VR373 v4 Form and finish excavations manually

Plus optional (two from the following)

VR372 v4	Identify and mark the location of utilities apparatus and sub-structures
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment
VR760 v1	Control, direct and guide the operation of plant or machinery
VR782 v1	Locate and excavate to expose buried utility services

Excavation Option Route (Total 6)

Mandatory

VR373 v4 Form and finish excavations manually

Plus optional (two from the following)

VR372 v4	Identify and mark the location of utilities apparatus and sub-structures
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment
VR760 v1	Control, direct and guide the operation of plant or machinery
VR782 v1	Locate and excavate to expose buried utility services

Reinstatement Option Route (Total 5)

Mandatory

VR172 v2 Reinstate ground condition

Plus optional (one from the following)

VR400 v2 Operate powered units, tools or pedestrian plant, machinery or equipment

VR760 v1 Control, direct and guide the operation of plant or machinery



Construction and Civil Engineering Operations Option List:

VR36 V2	Prepare and mix concrete and mortars
VR172 v2	Reinstate ground condition
VR250 v2	Erect and dismantle access/working platforms
VR361 v3	Cut, drill and shape construction related materials
VR362 v3	Lay, place or apply construction related materials
VR363 v3	Prepare and mix construction related materials
VR370 v4	Install, maintain and remove temporary excavation support
VR371 v3	Pour concrete to form structures
VR372 v4	Identify and mark the location of utilities apparatus and sub-structures
VR391 v2	Operate plant or machinery to receive and transport loads
VR394 v2	Operate plant or machinery to compact
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment
VR402 v2	Slinging and signalling the movement of suspended loads
VR643 v1	Move, handle and store resources
VR760 v1	Control, direct and guide the operation of plant or machinery
VR763 v1	Install, construct, maintain, dismantle and remove temporary works
VR782 v1	Locate and excavate to expose buried utility services



Unit endorsements for Construction and Civil Engineering Operations Level 2

Where industry requests; qualifications can be endorsed to show an option route and the type of resources and/or activities that relate to the unit. Listed below are the endorsements that can apply for units derived from the following NOS.

NOS	Endorsement
VR45	Three of the following: Concrete slabs/bases Form slab edging Position reinforcement Form surface finish
VR172	Three of the following: Backfill (excavated materials) Backfill (new materials) Compact Hard top surfaces Cultivated and grassed areas
VR250	Own area of work (i.e. Construction and Civil Engineering Operations) Plus two or more of the following: Ladders/crawler boards Step ladders/platform steps Proprietary towers Trestle platforms Mobile scaffold towers Proprietary staging/podiums
VR360	One of the following: Modular pavement Laying kerbs and channels Drainage construction Structural concrete Non-structural concrete Construction operations General construction Excavation and reinstatement Excavation Reinstatement
VR361	Four of the following: Composites Plastic Masonry Vitreous clay Metal Timber and timber based material Cementitious materials Bituminous material Geotextiles
VR362	Three of the following: Top soil or subsoil Granular fill materials Cohesive fill materials Concrete Other cementitious materials Bituminous material Geotextiles



NOS	Endorsement
VR363	Two of the following: Cementitious materials Plasters Resins Adhesives Bonding agents Colourings Waterproof coatings Grouts Pre-mixed compounds
VR367	One of the following: Block paving Brick paving Stone/Concrete setts Flags Natural stone rough cut Natural stone uniformly cut
VR370	One of the following: Proprietary system Open and closed support system Piling systems Bespoke support systems
VR371	Own area of work (i.e. Construction and civil engineering Operations) Plus two of the following: Chute Elephant's trunk Skip Pump Mono-rail Manually
VR372	Own area of work (i.e. Construction and civil engineering Operations)
VR373	Own area of work (i.e. Construction and civil engineering Operations)
VR391	One of the following: Forward tipping dumper wheeled Forward tipping dumper tracked
VR394	Ride-on roller
VR400	One of the following: Generators Pumps Pedestrian operated plant or machines Mixers Compressors Self-powered tools
VR401	Three of the following: Lines Levels Depths Areas Heights Angles



NOS	Endorsement
VR402	Slinger Signaller 'Occupation specific' only (own area of work:-i.e. Construction and civil engineering operations)
VR639	Own area of work (i.e. Construction and civil engineering Operations) One of the following: Inspection chambers Surface water systems Foul water systems
VR760	Operations Guide Banksman Plus one of the following: Modular pavement construction Laying kerbs and channels Drainage construction Structural Concreting Non-Structural Concreting Construction operations General construction Excavation and reinstatement Excavation Reinstatement
VR763	Own area of work (i.e. Construction and civil engineering operations) Plus four of the following: Protective screens, hoardings and covers Access and egress routes Supports Supporting structures Removal equipment Diverting equipment Site facilities Stabilisation

Note: Where industry requests an Awarding Organisation to further endorse a unit, the Awarding Organisation must first seek approval from the Standards Setting Body to ensure the endorsement is appropriate to the unit.

