

Recommended Qualification Structure for Accessing Operations and Rigging (Construction) Level 3

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)

- VR209 v2 Confirm work activities and resources for the work
- VR210 v3 Develop and maintain good working relationships
- VR211 v2 Confirm the occupational method of work
- VR252 v2 Utilise the provision of fall protection systems
- VR641 v2 Conform to general workplace health, safety and welfare

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Option 1 - Scaffolding and Offshore Scaffolding Option Route (Total 8) Mandatory

VR405 v2 Erecting specialised, designed scaffolds and rigging

Plus optional (two from the following)

- VR406 v2 Erecting and dismantling overhead scaffolds
- VR407 v2 Erecting and dismantling falsework scaffolds
- VR408 v2 Erecting and dismantling shoring scaffolds
- VR609 v2 Erecting and dismantling temporary roof scaffolds

Additional for Scaffolding option (not compulsory)

VR411 v3 Inspect scaffolding/rigging systems

Option 2 - Steeplejack Option Route (Total 12)

Mandatory

- VR120 v2 Carry out site measurements and evaluations
- VR254 v3 Erect and remove specialist access equipment
- VR255 v2 Install and remove temporary lifting and suspension apparatus
- VR392 v3 Operate plant or machinery used as work platforms
- VR405 v2 Erect specialised, designed scaffolds and rigging
- VR410 v3 Erect and dismantle steeplejack scaffolds for multi-faceted surfaces
- VR411 v3 Inspect scaffolding/ and rigging systems

Additional for Steeplejack option (not compulsory)

- VR53 v2 Erect metal chimneys
- VR155 v4 Demolish/dismantle brick, masonry and concrete structures
- VR414 v2 Install sheet metal cladding to chimneys or ducting
- VR415 v2 Install ducting and flue systems



Option 3 - Lightning Protection Engineer Option Route (Total 12)

Mandatory

- VR120 v2 Carry out site measurements and evaluations
- VR254 v3 Erect and remove specialist access equipment
- VR256 v2 Install lightning conductor systems
- VR257 v2 Commission lightning conductor installations systems
- VR372 v3 Identify and mark the location of utilities apparatus and sub-structures
- VR392 v2 Operate plant or machinery used as work platforms
- VR412 v2 Install electrical earthing systems

Additional for Lightning Conductor Engineering Option (not compulsory)

VR255 v2 Install and remove temporary lifting and suspension apparatus

Option 4 - Lightning Protective Systems Inspection and Testing Option Route (Total 8)

Mandatory

- VR120 v2 Carry out site measurements and evaluations
- VR250 v3 Use access equipment up to six metres
- VR325 v2 Inspect and test lightning protection systems

Option 5 - Rigging – Temporary Suspended Access Equipment Option Route (Total 12)

Mandatory

- VR659 v1 Operate plant machinery or machinery for non-operational activities
- VR664 v1 Diagnose faults in plant or machinery systems or components
- VR670 v1 Determine and complete service to maintain plant or machinery
- VR671 v1 Determine and advise on the viability of repair or replacement for returning plant or machinery to service

Plus optional (three from the following)

- VR663 v2 Inspect plant or machinery for operational serviceability
- VR665 v2 Install repair or modify construction resources by heating, welding, brazing soldering and thermal cutting
- VR666 v2 Produce one-off components to restore or maintain the operational functions of plant or machinery
- VR667 v1 Install plant or machinery for operational activities
- VR668 v3 Carry out specific tests on plant or machinery to determine operational serviceability
- VR669 v1 Configure plant or machinery for specific operational activities
- VR672 v1 Hand over plant or machinery to the control of others
- VR673 v1 Provide technical information, advice and guidance to users of plant or machinery



Unit endorsements for Accessing Operations and Rigging Level 3

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
VR250	Two of the following: Ladders Step ladders/platform steps Proprietary towers Podiums Mobile scaffold towers
VR252	Two or more of the following: scaffold/rigging secured steelwork structures wire and rope systems permanently installed anchorage points temporary anchorage points track systems proprietary systems
VR254	Occupational specific – One from the following specific occupational areas Steeplejacking: steeplejack vertical ladders, roof ladders Lightning conductor engineering: Roof ladders, tower scaffolds, crawler boards Rigging: Suspended access equipment, suspended platforms
VR255	 Occupational specific - Suspended Access – Three of the following: suspended platforms, winches, counterbalance suspension rigs, rope access anchor systems, suspension rigs Steeplejack – Two of the following: block and tackle material lifting gear (manual and mechanical), rope access anchor systems, counterbalance suspension rigs, suspension rigs Lightning Protection Engineering – Two of the following: block and tackle material lifting gear (manual and mechanical), suspended platforms, rope access anchor systems, bosun's seats, winches, counterbalance suspension rigs Offshore – Two of the following: block and tackle material lifting gear (manual and mechanical), rope access anchor systems, winches
VR392	One of the following: mobile elevated working platform scissor mobile elevated working platform boom vehicle mounted; mobile elevated working platform boom self propelled mobile elevated working platform mast climber
VR405	One of the following: Scaffolding Steeplejacking Rigging – suspended access equipment Off-shore scaffolding
VR406	Two of the following: drop scaffolds hung scaffolds scaffolds to span gaps (bridging) load bearing scaffold



	scaffolds with restricted access and/or build restrictions truss out
VR407	One of the following:
	Tube and fitting
	Systems scaffold
VR408	Two of the following:
	Raking-shore scaffolds
	Flying-shore scaffolds
	Deadshore scaffolds
VR410	One of the following:
	Tube and fitting
	Systems scaffold
VR609	One of the following:
	Tube and fitting
	Systems scaffold
VR659	Two of the following:
	hand-operated power tools
	static machinery
	pedestrian controlled equipment
	tracked plant
	wheeled plant
	rollers
VR664	Four of the following:
	power unit
	transmission
	steering
	hydraulics
	pump
	brakes
	pneumatics
	electrics
	electronics
	operating ancillaries or attachments
VR665	Heating; Two of the following:
	Free components (thermal shock)
	Heat treat
	Reduce or remove corrosion
	Adjust (local/spot)
	Expansion and contraction fit
	Welding: Two of the following:
	Oxygen and fuel gas
	Manual metal arc
	MIG or MAG
	Tungsten inert gas shielded
	Soldering: One of the following:
	Oxygen and fuel gas
	Iron and flux
	Electric soldering iron
	Joints; Two of the following:
	Butt
	Lap



	Fillet
	Corner
	Corner Positions: Two of the following:
	Flat
	Vertical/horizontal
	Vertical
	Overhead
	Thermal Cutting: One of the following:
	Oxy fuel gas arc
	Plasma arc
VR668:	Four of the following:
	Electric systems
	Cooling systems
	Lubrication systems
	Emission control
	Hydraulic systems
	Hydrostatic drive
	Transmission systems
	Pneumatic systems
	Braking systems
	Vibration management
	Steering/suspension systems
	Generator output control
	Electronic management
	Powered access equipment
	Material handling equipment
	Water pumps
	Craneage
	Lifting equipment
	Load testing (cranes, hoists, MEWPs, MHE)
VR669	Two of the following:
	Attachments
	Ancillaries
	Fire prevention (spark arrestors)
	Structural support (anchors and ties)
	Safety measures (restricted movement, passage or access, warning alarms,
	notices, lights or governors)
	Contaminant reduction (noise, gases, fluids
	Carriage of ancillaries/additional equipment
	Rail and trackside
	Cutting equipment (blade or teeth angles and aspects)
	Additions (e.g. publicity boards, notices, lights)
	Machine control (laser measurement or guidance, global positioning system)
	Productivity measurement (weigh load sensors, compaction sensors)
VR671	Five of the following:
	Time
	labour costs
	cost of component
	sub-assemblies and parts
	cost of consumables



	cost of overheads (transport, delivery, operational down time, power consumption, specialist tools and services) cost of replacement, like for like cost of replacement, alternative item of plant or machinery benefits of replacement availability of resources and capability report findings
VR673	Two of the following: Breakdown
	Handover
	Request
	Contract/guarantee/warranty/hire agreement
	Recall
	Modification/alteration

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.