

Recommended Qualification Structure for Plant 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

PLUS ONE OF THE FOLLOWING OPTIONAL ROUTES

Plant Operator Option Route (Total 4)

Mandatory

- VR386 v3 Prepare plant or machinery prior to operational performance

Plus Optional (one from the following)

- VR376 v5 Operate and control operations of road plant or machinery
- VR387 v2 Operate plant or machinery to lift and transfer loads
- VR388v2 Operate plant or machinery to extract
- VR389 v2 Operate plant or machinery to excavate
- VR390 v3 Operate plant or machinery to construct or form
- VR391 v2 Operate plant or machinery to receive and transport loads
- VR392 v2 Operate plant or machinery used as work platforms
- VR393 v2 Operate plant or machinery to lay and distribute
- VR394 v2 Operate plant or machinery to compact
- VR395 v2 Operate plant or machinery to process
- VR400 v2 Operate powered units, tools or pedestrian plant, machinery or equipment
- VR761 v2 Operate plant or machinery to sweep, clean or clear

Plant Operations Guide Option Route (Total 3)

Mandatory

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

Additional for Plant Operations Guide option (not compulsory)

- VR401 v2 Set out secondary dimensional work control

Vehicle and Plant Movements Guide Option Route (Total 3)

Mandatory

- VR396 v2 Direct and guide the movement of vehicles, plant or machinery

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Loader Securer Option Route (Total 4)

Mandatory

VR397 v2 Arrange and secure plant or machinery equipment for transportation

Plus optional (one from the following)

VR396 v2 Direct and guide the movement of vehicles, plant or machinery

VR402 v2 Slinging and signalling the movement of suspended loads

VR659 v1 Operate plant or machinery for non-operational activities

Road Rail Option Route (Total 5)

Mandatory

VR386 v3 Prepare plant or machinery prior to operational performance

VR398 v2 Operate road rail plant

Plus one from the Plant Operator optional list

Attachments Option Route (Total 5)

Mandatory

VR386 v3 Prepare plant or machinery prior to operational performance

VR399 v2 Operate plant or machinery attachments

Plus one from the Plant Operator optional list

In-Shore Marine Plant Operations option Route (Total 5)

Mandatory

VR386 v3 Prepare plant or machinery prior to operational performance

VR403 v3 Operate plant or machinery from a floating vessel

Plus one from Plant Operator optional list

Plant Erector and Dismantler Option Route (Total 5)

Mandatory

VR402 v2 Slinging and signalling the movement of suspended loads

VR404 v2 Erect and dismantle plant (cranes and rigs)

VR643 v1 Move, handle or store resources

Additional for all options (not compulsory)

VR643 v1 Move, handle or store resources

VR659 v1 Operate plant or machinery for non-operational activities

Simulation Information from 01/01/2015

Evidence for competence qualifications and units derived from the following National Occupational Standards (NOS) must be work-based. Simulation is only allowed for the additional information items as detailed below. For a competence outcome, simulation must be conducted in accordance with the Construction Consolidated Assessment Strategy.

VR403v1	Additional information item 6 (v1 revised in NOV 2013) of Performance Criteria 3 RITS ref D/600/8104	Position in NOS changed due to review of VR403.	
VR403v2	Additional information item 5 (v2) of Performance Criteria 3 - RITS ref L/506/4674	Plant Operations	L2

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Unit endorsements for Plant 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
VR386	Lifting plant or machines Transferring plant or machines Extracting plant or machines Excavating plant or machines Construction plant or machines Formation plant or machines Receiving plant or machines Transporting plant or machines Plant or machines used as work platforms Laying or distributing plant or machines Compacting plant or machines Processing plant or machines Road rail plant Attachments In-shore marine plant
VR387	Compact crane – static stabilisers Compact crane – mobile industrial Compact crane – luffing static Compact crane – 360° pick and carry Crawler crane up to 10 tonnes Crawler crane above 10 tonnes Tower crane trolley jib – cab controlled Tower crane trolley jib – remote controlled Tower crane luffing jib – cab controlled Rough terrain masted forklift Forklift sideloader Industrial forklift truck Telescopic handler industrial telescopic Telescopic handler up to 9 metres Telescopic handler all sizes Telescopic handler all sizes excluding 360° Telescopic handler all sizes including 360° Reach truck Hoist rack and pinion goods Hoist passenger/goods combined Hoist rope operated goods Hoist transport platform Crawler tractor side boom Knuckle boom Lorry loader hook Lorry loader clamshell bucket Lorry loader hydraulic clamp Skip handler Mobile crane blocked duties Mobile crane pick and carry duties only Mobile crane all duties Remote controlled tower crane Overhead crane Excavator crane Container handler Self-propelled modular transporter Ergonomic manipulating machine

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NOS	Endorsement
VR388	Dragline Excavator 180° wheeled below 5 tonne Excavator 180° wheeled above 5 tonne Wheeled loading shovel Tracked loading shovel Skid steer loader Motorised scraper Trencher Loader compressor Excavator 360° below 10 tonne tracked Excavator 360° below 10 tonne wheeled Excavator 360° above 10 tonne tracked Excavator 360° above 10 tonne wheeled Crawler tractor dozer – extract Crawler tractor dozer – excavate Crawler tractor dozer – construct/form Crawler tractor dozer – lay/distribute Suction and Vacuum Excavator
VR389	Dragline Excavator 180° crawler and wheeled below 5 tonne Excavator 180° crawler and wheeled above 5 tonne Crawler tractor/dozer Trencher Excavator 360° below 10 tonne tracked Excavator 360° below 10 tonne wheeled Excavator 360° above 10 tonne tracked Excavator 360° above 10 tonne wheeled Wheeled loading shovel Tracked loading shovel Skid steer loader Suction and Vacuum Excavator
VR390	Grader Crawler tractor dozer Piling rig tripod Piling rig driven Piling rig bored Drilling rigs Tunnelling plant and equipment Formwork rig slipform vertical Formwork rig slipform horizontal Formwork rig climbing or jumping
VR391	Truck mounted boom concrete pump Trailer mounted concrete pump Forward tipping dumper wheeled Forward tipping dumper tracked Tractor complete with towed equipment Dump truck – articulated chassis up to 15 tonne Dump truck – articulated chassis all sizes Dump truck – rigid chassis up to 15 tonne Dump truck – rigid chassis up to 50 tonne Dump truck – rigid chassis all sizes wheeled Dump truck – rigid chassis tracked Self-propelled bowser Volumetric truck Static concrete placing boom
VR392	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 Mast climbing work platform

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NOS	Endorsement
VR393	Motorised scraper Soil stabiliser self-propelled Soil stabiliser towed Spreader self-propelled Binder spreader Towed scraper Crawler tractor dozer Laser screeder Topping spreader
VR394	Ride-on roller Soil compactor Landfill compactor
VR395	Crusher Screener Batching plant
VR396	Movement guide marshaller Loader/securer
VR397	Two of the following required: Drive and operate Direct and guide movement Direct and guide operations Slinger/signaller Raised loads Plus one or more of the following required: Loader/securer Slinger Signaller non STGO, non LGV Loader/securer Slinger Signaller non STGO, LGV Loader/securer Slinger Signaller STGO Loader/securer movement guide marshaller non STGO, non LGV Loader/securer movement guide marshaller non STGO, LGV Loader/securer movement guide marshaller STGO Loader/securer plant driver non STGO, non LGV Loader/securer plant driver non STGO, LGV Loader/securer plant driver STGO
VR398	Road rail – forward tipping dumper Road rail – MEWP scissor Road rail – MEWP boom Road rail – crawler tractor/dozer Road rail – knuckle boom crane Road rail – dump truck – articulated chassis Road rail – dump truck – rigid chassis Road rail – excavator 360° wheeled Road rail – excavator 360° tracked Road rail – excavator crane Road rail – crane Road rail – rough terrain forklift truck Road rail – telescopic handler Road rail – agricultural tractor

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NOS	Endorsement
VR399	Rail thimble Rail flail Rail ballast brush Rail ballast/material movement vacuum unit Rail hydraulic rail beam Rail hydraulic sleeper grab Rail trailer Rail tamper Rail vacuum lifter Rail grapple/log grab Auger Sweeper Pecker/hammer Mower Grab Roller Mobile work platform Fork Lifthook Bucket Lifting jib crusher
VR400	Generators Pumps Pedestrian operated plant or machines Mixers Compressors Self-powered tools
VR401	Lines Levels Depths Areas Heights Angles
VR402	Slinger signaller – loader securer only (i.e. own area of work) Slinger signaller – erector and dismantler only (i.e. own area of work)
VR403	At least six of the following: Lift Transfer Extract Excavate Construct Form Receive Access Distribute Demolish Process
VR404	Mobile crane Crawler crane Mobile tower crane Self-erect equipment Piling rig Demolition rig Drilling rig
VR659	At least two of the following: Hand-operated power tools Static machinery Pedestrian controlled power equipment Tracked plant Wheeled plant Rollers

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NOS	Endorsement
VR760	Operations guide banksman
VR761	One of the following: Road sweeper Pavement sweeper Self-propelled sweeper Pedestrian controlled sweeper Gully cleaner Gully sucker Pedestrian controlled cleaner Plus two of the following: Tipping of lifted materials Scrub clean Hose clean, wet sweep Pressure wash clean Empty or clear by suction Blow clear

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.