

Recommended Qualification Structure for Construction Plant or Machinery Maintenance

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.

MANDATORY

- 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
- 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) (10)

- VR663 v2 Inspect plant or machinery for operational serviceability
- VR665 v1 Install, repair or modify construction resources by heating, welding, brazing, soldering and thermal cutting
- VR666 v1 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 Construction Plant or Machinery Maintenance 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
VR659	At least two of the following: Hand-operated power tools Static machinery Pedestrian controlled equipment Tracked plant Wheeled plant Rollers
VR664	At least four of the following: Power unit Transmission Steering Hydraulic Pump Brake Pneumatic Electrical Electronic Operating ancillaries and attachments
VR665	Heating: at least two of the following: Components freed Heat treatment Corrosion reduction/removal Adjustment Expansion and contraction fit Welding: at least two of the following: Oxygen and fuel gas Manual metal arc MIG or MAG Tungsten inert gas Soldering: at least one of the following: Oxygen and fuel gas Iron and flux Electric soldering iron Joints: at least two of the following: Butt Lap Fillet Corner Positions: at least two of the following: Flat Vertical/horizontal Vertical Overhead Thermal cutting: at least one of the following: Oxy fuel gas Plasma

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NOS	Endorsement
VR667	At least one of the following: Mobile or ringer crane Tower crane Hoist Rig (piling/drilling/demolition) Excavation/vacuum plant machinery Batching/mixing/blending plant Crushing/screening plant Power generation equipment Pump Climate management machines Concrete placing boom
VR668	At least 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
VR669	At least two of the following: Attachments Ancillaries Fire prevention Structural support Safety measures Contaminant reduction Carriage of ancillaries/additional equipment Rail and trackside Cutting equipment Additions (e.g. publicity boards, notices, lights) Machine control Productivity measurement

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NOS	Endorsement
VR673	At least 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.