

Qualification Title: **Level 3 NVQ Diploma in Construction Plant or Machinery Maintenance (Construction)**

TQT Total: 1670

**CITB unit ref for internal use only*

Mandatory units

*CITB unit ref	Title	Level
209v2	Confirming work activities and resources for an occupational work area in the workplace	3
210v2	Developing and maintaining good occupational working relationships in the workplace	5
211v2	Confirming the occupational method of work in the workplace	3
659	Operating plant or machinery for non-operational activities in the workplace	2
664	Diagnosing faults in plant or machinery systems or components in the workplace	3
670	Determining and completing service to maintain plant or machinery in the workplace	3
671	Determining and advising on the viability of repair or replacement for returning plant or machinery to service in the workplace	3

Optional units

THREE Units

*CITB unit ref	Title	Level
663v2	Inspecting plant or machinery for operational serviceability in the workplace	2
672	Handing over plant or machinery to the control of others in the workplace	3
673	Providing technical information, advice and guidance to users of plant or machinery in the workplace	3
665	Installing, repairing or modifying construction resources by heating, welding, brazing, soldering and thermal cutting in the workplace	2
666	Producing one-off components to restore or maintain the operational functions of plant or machinery in the workplace	2
667	Installing plant or machinery for operational activities in the workplace	3
668v3	Carrying out specific tests on plant or machinery to determine operational serviceability in the workplace	3
669	Configuring plant or machinery for specific operational activities in the workplace	2

Unit endorsements for Level 3 NVQ Diploma in Construction Plant or Machinery Maintenance (Construction)

*CITB unit ref	Endorsement
659	Two of the following endorsements required: Hand-operated power tools Static machinery Pedestrian controlled equipment Tracked plant Wheeled plant Rollers
664	Four of the following endorsements required:: Power unit Transmission Steering Hydraulic Pump Brake Pneumatic Electrical Electronic Operating ancillaries and attachments
665	<p>Heating: Two of the following endorsements required: Components freed Heat treatment Corrosion reduction/removal Adjustment Expansion and contraction fit</p> <p>Welding: Two of the following endorsements required: Oxygen and fuel gas Manual metal arc MIG or MAG Tungsten inert gas</p> <p>Soldering: One of the following endorsements required: Oxygen and fuel gas Iron and flux Electric soldering iron</p> <p>Joints: Two of the following endorsements required: Butt Lap Fillet Corner</p> <p>Positions: Two of the following endorsements required: Flat Vertical/horizontal Vertical Overhead</p> <p>Thermal cutting: One of the following endorsements required: Oxy fuel gas Plasma</p>

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*CITB unit ref	Endorsement
667	<p>One of the following endorsements required:</p> <ul style="list-style-type: none"> 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
668	<p>At least four of the following of the following endorsements required:</p> <ul style="list-style-type: none"> 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)
669	<p>Two of the following endorsements required:</p> <ul style="list-style-type: none"> 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
673	<p>Two of the following endorsements required:</p> <ul style="list-style-type: none"> 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 CITB (standards.qualifications@citb.co.uk) to ensure the endorsement is appropriate to the unit.