

CPC20120 Certificate II in Construction

Students are required to provide access to workplaces (or simulated environments) that have the following:

Core units

CPCCCM2005 Use construction tools and equipment (hand, power, pneumatic)

Hand tools

- Tape measures, rules, squares (try/combination), chalk line, pencils/markers
- Hammers (claw/club), mallets, cold chisels, punches
- Screwdrivers, pliers (lineman/needle-nose), shifters/adjustables, spanners/sockets
- Utility knives, snips, files/rasps, hand saws
- Spirit levels, straight edge
- Clamps, pry bar/crowbar

Power tools

- Corded/cordless drill/driver, impact driver
- Circular saw, reciprocating saw, jigsaw
- Angle grinder (cutting & grinding discs)
- Hammer drill/rotary hammer (as relevant)
- Heat gun (as relevant to tasks)

Pneumatic tools + air

- Air compressor, hoses, couplers, fittings
- Pneumatic nailer/stapler (as relevant), blow gun
- Air tool oil / maintenance supplies

Accessories / consumables

- Drill bits, driver bits, hole saws
- Saw blades, grinder discs, abrasives
- Fasteners (nails/screws/anchors), fixings to match tasks
- Lubricants, cleaning cloths/brushes

Electrical safety + general equipment

- RCD/protected leads, extension leads, lead stands
- Battery chargers/spare batteries
- Tool boxes/bags, storage/lockout for tools

PPE (linked across CPC units)

- Safety glasses, hearing protection, gloves, steel-caps, high-vis
- Dust masks/respirators (task dependent)

*(Unit scope explicitly includes **hand tools, power tools, and pneumatic tools**, plus PPE and maintenance/clean-up.)*

CPCCCM2006 Apply basic levelling procedures

Levelling equipment

- Automatic/optical level **or** laser level (construction levelling device)
- Tripod
- Staff (levelling rod), staff bubble
- Measuring tapes/rules (long tape if needed)
- Turning point plate / change plate (recommended for accuracy)

Set-out/marking

- Profiles/batter boards & stringline (if used in the practical), pegs/stakes
- Chalk line, marking paint, pencils/markers
- Hammer/mallet for pegs
- Flagging tape

Recording

- Field book/levelling book, clipboard, calculator
- Phone/tablet for photos and recording (where workplace allows)

Site safety

- Basic barricading/signage as required by site controls

(Unit requires selecting levelling tools/equipment, setting up the device, shooting levels, transferring heights, marking, and documenting results.)

CPCCCM2012 Work safely at heights

Fall prevention / protection

- Full body harness
- Lanyards (adjustable / fixed), energy absorber where required
- Rope lanyard / restraint lanyard (for fall restraint)
- Inertia reel / SRL (if used)
- Anchorage connectors (slings, hooks, karabiners rated), temporary anchor devices (where permitted)
- Static line / lifeline system (where used for training scenario)

Access systems (depending on task scenario)

- Extension ladder (industrial rated), ladder stabiliser/stand-off, ladder ties
- Mobile scaffold / work platform (if used)
- EWP may be used in some workplaces (not always required for this unit, but commonly present)

Dropped object controls

- Tool lanyards/tethers, tool belts/pouches
- Toe-boards (if on scaffold), debris netting (site dependent)

Area controls

- Barricades/cones, signage, exclusion zone tape

PPE

- Helmet (often with chin strap for heights), eyewear, gloves, boots, hi-vis

(Unit explicitly requires fall restraint/arrest devices, anchor points, signage/barricades, PPE, and safe handling of tools/materials to prevent falling objects.)

CPCCCO2013 Carry out concreting to simple forms

Forming materials (explicit in unit evidence)

- Edge forms/boards
- Pegs/stakes

- Bracing
- Vapour barrier (plastic membrane)
- Fabric sheet (where used)
- Spacers, bar chairs
- Reinforcing bars, mesh (as required by the “simple forms” being poured)
- Tie wire (often needed when reo is included)

Concrete materials

- Concrete (premix delivery **or** bagged cement + sand + aggregate for small mixes)
- Water supply (hose/buckets)
- Curing materials: curing compound **or** plastic sheeting/hessian, tape/weights

Concrete tools / equipment

- Wheelbarrows, shovels, rakes/come-alongs
- Screed board/straightedge, bull float, hand floats (wood/magnesium), edging tools, jointers/groovers
- Trowels (steel/finishing), broom finish broom
- Concrete mixer (if mixing onsite)
- Concrete vibrator (pencil/immersion) where used
- Tamping rod / compaction tools (where relevant)
- Levels/stringline for checking heights and falls

PPE & washdown

- Alkali-resistant gloves, long sleeves, safety glasses
- Rubber boots (often), barrier cream
- Wash station/eye wash access, spill kit (site policy)

(The unit’s knowledge evidence explicitly lists concreting materials such as bar chairs, bracing, edge forms/boards, mesh, pegs, spacers, reinforcing bars, vapour barriers, plus concreting techniques and tool/equipment use.)

CPCCOM1012 Work effectively and sustainably in the construction industry

Sustainability / resource efficiency items

- Clearly labelled waste segregation bins (general, recycling, timber, metal, concrete/rubble—site dependent)
- Reuse storage area/containers for salvageable materials
- Spill kit (basic: absorbent pads/granules, disposal bags)
- SDS register access (paper or digital)
- Water-saving/hosing controls where applicable

Workplace documentation/resources

- Site environmental management plan (or equivalent workplace procedures)
- Workplace policies/procedures for sustainability practices

(Unit includes environment and resource efficiency requirements in construction workplaces.)

CPCCOM1013 Plan and organise work

Planning tools/resources

- Work instructions/job cards
- Daily plan / run sheet / task sequence sheets
- Checklists (pre-start, tools, quality)
- Basic scheduling tools (paper planner or app)
- Site map / laydown plan where applicable

Coordination/communication support

- Two-way radios or phones (site dependent)
- Whiteboard/site diary (often used in training environments)

(Unit is about planning and organising basic work tasks in construction contexts.)

CPCCOM1014 Conduct workplace communication

Communication equipment

- Two-way radio, mobile phone (site rules permitting)
- Tablet/laptop for digital forms (where used)

Communication materials

- Standard workplace forms: incident/hazard report, toolbox talk attendance, request for information (RFI) templates, basic emails/messages
- Noticeboards/signage used on site

(Unit is focused on gathering, conveying and receiving information in construction workplaces.)

CPCCOM1015 Carry out measurements and calculations

Measuring tools

- Tape measure(s) (short + long)
- Steel rule, folding rule
- Spirit level
- Square/combination square
- Measuring wheel (optional but common)
- Stringline and pegs for layout (often used alongside measurement tasks)

Calculation aids

- Scientific/basic calculator
- Workbooks/worksheets, notepads
- Plans/specs for quantity take-off exercises

(Unit requires taking measurements and performing calculations to determine quantities of materials.)

CPCCOM2001 Read and interpret plans and specifications

Documents

- Architectural drawings (site plan, floor plan, elevations, sections, details)
- Structural drawings (where relevant to training)
- Specifications (general notes, materials, finishes)
- Schedules (doors/windows/finishes)
- Revisions/addenda (for version control exercises)

Tools

- Scale ruler (metric architectural/engineering)
- Highlighters, pencils, notepad, calculator
- Magnifier (optional)
- Computer/tablet with PDF viewer + printer (often used)

(Unit is specifically about reading and interpreting plans and specifications in construction operations.)

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

WHS resources

- SWMS/JSA templates (paper or digital)
- Risk assessment forms, hazard/incident report forms
- SDS access (paper/digital), hazardous substance register
- Site safety plan / induction materials

Safety equipment (site-wide)

- Signage (mandatory PPE, hazard warnings)
- Barricades/cones/exclusion tape
- First aid kit access; fire extinguisher access (site dependent)
- Basic lockout/tagout items (where applicable to tools)

PPE (baseline set used across practical units)

- Hard hat, hi-vis, safety boots
- Eye/hearing protection, gloves
- Respiratory protection (dust/particulate), task dependent

(Unit covers fundamental WHS, including hazardous materials identification and use of signs/symbols and safe work practices.)

Elective units

CPCCCM2002 Carry out hand excavation

Hand excavation tools

- Shovels (long handle/round/square), trenching shovel
- Spade, mattock/pick, crowbar/pry bar
- Post hole shovel/digger, digging bar
- Rake/hoes (for spoil management)
- Wheelbarrow, buckets
- Tamper/hand compactor (for backfill where required)
- Hand saw/pruners (roots—site dependent)

Set-out / service location

- Marking paint, flags, pegs/stakes, stringline
- Service markers/identification aids (as per site requirements)
- Dial Before You Dig plans / services drawings (training scenarios often include these)

Excavation support & water control (as required)

- Basic trench shoring/support (where used in training)
- Temporary drainage aids: pump, hose, sandbags (scenario dependent)

PPE

- Gloves, boots, eye protection; respiratory protection if dusty

(Knowledge evidence explicitly requires “types and uses of hand tools and equipment” for excavation, locating services, service markers, trench line/depth processes, drainage diversion, and basic trench support.)

CPCCCM2007 Use explosive power tools

Explosive power tool (EPT) system

- Indirect action explosive powered fastening tool (EPT)
- Manufacturer manual, tool servicing kit (cleaning brushes, oil, spares per system)
- Approved cartridges/charges (various power levels, colour-coded by manufacturer)
- Fasteners/pins (for concrete/steel bases), washers as required

- Spall shield/guard (tool-dependent)

Workface items

- Base material samples (concrete/steel) for practice
- Measuring/marking tools (tape, marker)
- Safe storage container for charges (as required by site rules)

Controls & safety

- PPE: eye + hearing protection (critical), gloves, helmet, boots
- Signage/barricades/exclusion zone equipment
- Misfire procedure resources (as per manufacturer + workplace procedure)

(Unit covers operating explosive power tools using explosive charges in a magazine to fasten materials/fixings to bases.)

CPCCCM2008 Erect and dismantle restricted height scaffolding (\leq ~4m modular)

Scaffold system components (typical restricted height modular)

- Standards/uprights
- Ledgers/hizontals
- Transoms
- Base plates and adjustable screw jacks
- Sole boards
- Bracing (diagonal)
- Platforms/decks/planks
- Guardrails (top/mid rails)
- Toe boards
- Access ladder/stair unit (system dependent)
- Castors (if mobile scaffold), wheel locks
- Couplers/clamps (if system uses them)
- Ties/outriggers/stabilisers (as required)

Tools

- Scaffold spanner/podger, ratchet/socket set as needed
- Spirit level, tape measure
- Hammer, pins/clips, tagging system (scaffold tags where used)

Safety and controls

- Barricades/signage for erection zone
- PPE: helmet, gloves, boots, hi-vis
- Fall protection may be required depending on erection method/site rules

(Unit is about erecting/dismantling restricted height scaffolding systems and placement of safety barriers.)

CPCCCM2009 Carry out basic demolition

Demolition hand tools

- Crowbar/wrecking bar, pry bars
- Lump/club hammer, sledgehammer
- Cold chisels, masonry bolster
- Hand saws, utility knives
- Screwdrivers, spanners, pliers (for fixings removal)

Powered demolition tools (task dependent)

- Reciprocating saw (demo blades), circular saw (appropriate blades)
- Angle grinder (cutting discs)
- Jackhammer/demolition hammer (where applicable)
- Drill/driver for dismantling fixings

Containment, handling & waste

- Rubbish chutes/bins/skips (site dependent)
- Wheelbarrows, trolleys/dollies, lifting straps
- Tarps/plastic sheeting, dust suppression spray/water source (where allowed)
- Brooms, shovels, cleanup tools

Hazard controls (commonly required)

- Exclusion zone: barricades, signage
- PPE: eye/hearing protection, gloves, boots, hi-vis, respirator (dust)
- Asbestos awareness resources + “stop work/report” process (note: **not** asbestos removal)

(Unit knowledge evidence includes safety requirements (including PPE and asbestos safety requirements), environmental requirements, and “types and uses of tools and equipment” for basic demolition.)

CPCCSF2004 Place and fix reinforcement materials

Reinforcement materials (explicit in unit evidence)

- Deformed bars, plain rods
- Ligatures
- Mesh sheets (plain and/or deformed)
- Wire ties
- Spacer/spreader assemblies
- Bar chairs

Tools/equipment (explicit in unit evidence)

- Bolt cutters
- Mesh guillotine (manual)
- Reinforcement bender (manual)
- Measuring tapes and rules
- Tie wire reels
- Wire nippers

Support items

- Marking paint/chalk, tags
- Storage racks/stands for reo and mesh (safe stacking)
- Barricades/signage as required

PPE

- Gloves (cut-resistant recommended), eye protection, boots, hi-vis

(Unit knowledge evidence explicitly lists both reinforcement materials and key tools like bolt cutters, mesh guillotines, reinforcement benders, tie wire reels and wire nippers.)