

Competency Analysis Profile (CAP) Chart

4180.0 Demonstrate Safe Working Practices and Techniques	4180.01 Identify health and safety hazards in the workplace	4180.02 Wear, adjust and maintain personal protective equipment	4180.03 Operate emergency safety equipment	4180.04 Practise good housekeeping in the workplace	4180.05 Operate and maintain tools and equipment
	4180.06 Assure protection from fire hazards	4180.07 Handle and store hazardous materials	4180.08 Report injuries	4180.09 Complete written safety and injury reports	4180.10 Apply basic first aid to treat conditions
4181.0 Perform Site Planning and Excavation	4181.01 Develop a plot plan	4181.02 Stake out excavation site	4181.03 Monitor excavation site	4181.04 Obtain a soil sample	4181.05 Fill in site
4182.0 Build Foundation	4182.01 Construct footing forms	4182.02 Level forms	4182.03 Calculate volume of concrete	4182.04 Place structural reinforcing bars into formwork	4182.05 Pour concrete within the formwork
	4182.06 Inspect concrete	4182.07 Remove forms	4182.08 Build masonry walls	4182.09 Apply parging and damp-proofing	4182.10 Install anchor bolts
	4182.11 Install drainage tile	4182.12 Secure sill plates to top of block wall	4182.13 Place centre beam	4182.14 Install floor joists	4182.15 Install floor sheeting
	4182.16 Backfill site				

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4183.0 Rough Frame Structure	4183.01 Layout wall plates	4183.02 Square walls with measuring tape	4183.03 Install storm bracing diagonally or using exterior-grade sheathing	4183.04 Raise wall panels and secure to sub-floor	4183.05 Secure second top plate to interior and exterior walls
	4184.01 Fabricate jig	4184.02 Match roof shape and pitch	4184.03 Cut and fabricate materials	4184.04 Layout top wall plates	4184.05 Lift roof trusses on top of wall structures
	4184.06 Apply temporary roof bracing to top of truss units	4184.07 Install false fascia boards	4184.08 Apply sheathing to exterior side of cable ends	4184.09 Apply roof sheathing	4184.10 Shingle roof and install vents and flashing
	4184.11 Establish location of attic access and install framing	4184.12 Install attic ventilation systems	4184.13 Install exterior doors and windows		
	4185.01 Locate and nail on outlet boxes	4185.02 Drill holes in stud units	4185.03 Pull wire through joists to boxes and connect to boxes	4185.04 Ensure outlet boxes meet vapour barrier requirements	4185.05 Caulk around wires protruding in attic to prevent air infiltration
	4185.06 Install wiring for electrical heating system				

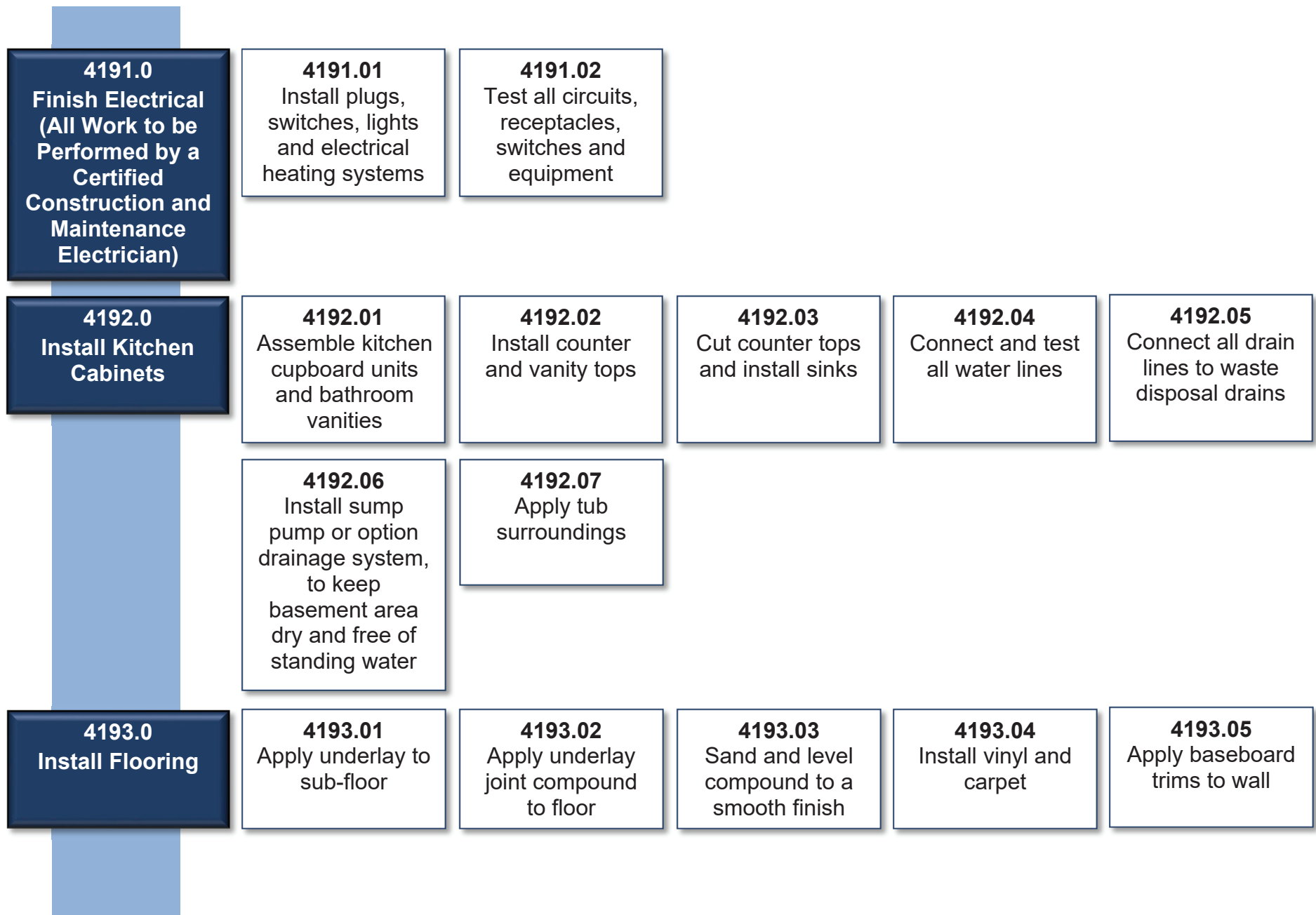
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4186.0 Rough In Plumbing and Drain Work (Work to be performed by Certified Plumbers)	4186.01 Drill holes in structure	4186.02 Cut and install piping and water supply system	4186.03 Caulk and seal holes	4186.04 Install basement floor drains	
4187.0 Pour Basement Floor	4187.01 Place gravel	4187.02 Install grade stakes	4187.03 Place vapour barriers on gravel	4187.04 Calculate volume of concrete	4187.05 Establish correct strength of concrete
	4187.06 Cast and place concrete mixture	4187.07 Apply trowelled finish to concrete	4187.08 Apply pressure cuts in floor		
4188.0 Install Exterior Siding and Soffits	4188.01 Calculate square foot requirements of exterior siding units	4188.02 Calculate corners and trim works for siding	4188.03 Calculate soffit metal & fascia board requirements	4188.04 Calculate trim works for soffits	4188.05 Place building paper over exterior sheathing
	4188.06 Install corner post trim works	4188.07 Install starter strip	4188.08 Nail siding in place	4188.09 Apply soffit trim, soffits, and fascia board	

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4189.0 Install Pre-fabricated Chimneys	4189.01 Mark out location of chimney unit on wall or floors	4189.02 Cut holes in floor or walls	4189.03 Erect pre-fabricated base units, to support chimney on either exterior walls or floor units	4189.04 Assemble chimney units through wall or floors support	4189.05 Pour concrete within the formwork
	4189.06 Cut hole for chimney in roof area or exterior eave; installing additional sections of chimney units and applying flashings	4189.07 Assemble chimney cap units			
	4190.01 Insulate all exterior wall cavities and attic	4190.02 Apply strapping to ceiling walls	4190.03 Apply vapour barriers	4190.04 Apply gyproc to ceilings	4190.05 Apply gyproc to walls
	4190.06 Apply drywall tape to gyproc	4190.07 Apply finish coats of plaster to gyproc	4190.08 Sand final coat of drywall compound	4190.09 Apply finish coats of paint	4190.10 Install interior doors, closet doors and trim work
	4190.11 Install lock sets, passage sets and door handles	4190.12 Install window trim (build-ups and window casings)	4190.13 Apply finish to wood products (doors, windows and trim works)	4190.14 Install handrails for basement access	

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4194.0 Landscape Site	4194.01 Construct steps and landings and install pre-made units	4194.02 Apply finish grades, top soils or driveway materials			
4195.0 Construct Stairways	4195.01 Calculate unit rise and run to establish stairway shape	4195.02 Build stringer pattern for trial fit from unit calculations, selecting the correct size and grade of lumber	4195.03 Build additional stringers, from a pattern to build stairways by cutting risers and treads	4195.04 Install risers and treads into stringers	4195.05 Set stairway in place; level, shim and fasten; levelling in place
4196.0 Manage a Construction Project	4196.01 Inspect building site	4196.02 Prepare and implement project timetable	4196.03 Estimate project materials, supplies and labour requirements from plans, drawings and specifications	4196.04 Verify deliveries of materials and supplies	4196.05 Supervise/monitor, work performed
	4196.06 Prepare progress and other reports	4196.07 Sub-contract for construction activities	4196.08 Promote workplace labour relations	4196.09 Consult with customer, suppliers, architects, sub-contractors and workforce	4196.10 Establish/monitor workplace safety programs