

**Competency Analysis Profile (CAP) Chart**

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

## Competency Analysis Profile: Native Residential Construction Worker 296A (all unshaded skill sets must be completed)

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|--|--|---|---|--|--|
| <b>4183.0</b><br><b>Rough Frame Structure</b>                  | <b>4183.01</b><br>Layout wall plates                                     | <b>4183.02</b><br>Square walls with measuring tape  | <b>4183.03</b><br>Install storm bracing diagonally or using exterior-grade sheeting | <b>4183.04</b><br>Raise wall panels and secure to sub-floor            | <b>4183.05</b><br>Secure second top plate to interior and exterior walls             |
| <b>4184.0</b><br><b>Construct Roofing</b>                      | <b>4184.01</b><br>Fabricate jig  | <b>4184.02</b><br>Match roof shape and pitch        | <b>4184.03</b><br>Cut and fabricate materials                                       | <b>4184.04</b><br>Layout top wall plates                               | <b>4184.05</b><br>Lift roof trusses on top of wall structures                        |
|  | <b>4184.06</b><br>Apply temporary roof bracing to top of truss units     | <b>4184.07</b><br>Install false fascia boards       | <b>4184.08</b><br>Apply sheathing to exterior side of cable ends                    | <b>4184.09</b><br>Apply roof sheathing                                 | <b>4184.10</b><br>Shingle roof and install vents and flashing                        |
|  | <b>4184.11</b><br>Establish location of attic access and install framing | <b>4184.12</b><br>Install attic ventilation systems | <b>4184.13</b><br>Install exterior doors and windows                                |  |  |
| <b>4185.0</b><br><b>Rough In Electrical Service and Wiring</b> | <b>4185.01</b><br>Locate and nail on outlet boxes                        | <b>4185.02</b><br>Drill holes in stud units         | <b>4185.03</b><br>Pull wire through joists to boxes and connect to boxes            | <b>4185.04</b><br>Ensure outlet boxes meet vapour barrier requirements | <b>4185.05</b><br>Caulk around wires protruding in attic to prevent air infiltration |
|  | <b>4185.06</b><br>Install wiring for electrical heating system           |   |   |  |  |

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

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|---|--|--|---|---|--|
| <b>4189.0</b><br><b>Install</b><br><b>Pre-fabricated</b><br><b>Chimneys</b> | <b>4189.01</b><br>Mark out location of chimney unit on wall or floors  | <b>4189.02</b><br>Cut holes in floor or walls                        | <b>4189.03</b><br>Erect pre-fabricated base units, to support chimney on either exterior walls or floor units | <b>4189.04</b><br>Assemble chimney units through wall or floors support | <b>4189.05</b><br>Pour concrete within the formwork                  |
|   | <b>4189.06</b><br>Cut hole for chimney in roof area or exterior eave; installing additional sections of chimney units and applying flashings |  | <b>4189.07</b><br>Assemble chimney cap units  |   |  |
| <b>4190.0</b><br><b>Complete Interior Finishing</b>                         | <b>4190.01</b><br>Insulate all exterior wall cavities and attic  | <b>4190.02</b><br>Apply strapping to ceiling walls                   | <b>4190.03</b><br>Apply vapour barriers   | <b>4190.04</b><br>Apply gyproc to ceilings                              | <b>4190.05</b><br>Apply gyproc to walls                              |
|   | <b>4190.06</b><br>Apply drywall tape to gyproc   | <b>4190.07</b><br>Apply finish coats of plaster to gyproc            | <b>4190.08</b><br>Sand final coat of drywall compound   | <b>4190.09</b><br>Apply finish coats of paint                           | <b>4190.10</b><br>Install interior doors, closet doors and trim work |
|   | <b>4190.11</b><br>Install lock sets, passage sets and door handles   | <b>4190.12</b><br>Install window trim (build-ups and window casings) | <b>4190.13</b><br>Apply finish to wood products (doors, windows and trim works)                               | <b>4190.14</b><br>Install handrails for basement access                 |  |

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|--|---|---|--|---|--|
| <b>4191.0</b><br><b>Finish Electrical</b><br><b>(All Work to be</b><br><b>Performed by a</b><br><b>Certified</b><br><b>Construction and</b><br><b>Maintenance</b><br><b>Electrician)</b> | <b>4191.01</b><br>Install plugs,<br>switches, lights<br>and electrical<br>heating systems   | <b>4191.02</b><br>Test all circuits,<br>receptacles,<br>switches and<br>equipment |  |   |  |
| <b>4192.0</b><br><b>Install Kitchen</b><br><b>Cabinets</b>   | <b>4192.01</b><br>Assemble kitchen<br>cupboard units<br>and bathroom<br>vanities  | <b>4192.02</b><br>Install counter<br>and vanity tops                              | <b>4192.03</b><br>Cut counter tops<br>and install sinks            | <b>4192.04</b><br>Connect and test<br>all water lines | <b>4192.05</b><br>Connect all drain<br>lines to waste<br>disposal drains |
|  | <b>4192.06</b><br>Install sump<br>pump or option<br>drainage system,<br>to keep<br>basement area<br>dry and free of<br>standing water | <b>4192.07</b><br>Apply tub<br>surroundings                                       |  |   |  |
| <b>4193.0</b><br><b>Install Flooring</b>   | <b>4193.01</b><br>Apply underlay to<br>sub-floor  | <b>4193.02</b><br>Apply underlay<br>joint compound<br>to floor                    | <b>4193.03</b><br>Sand and level<br>compound to a<br>smooth finish | <b>4193.04</b><br>Install vinyl and<br>carpet         | <b>4193.05</b><br>Apply baseboard<br>trims to wall                       |
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|   |   |   |  |   |   |
|---|---|---|--|---|---|
| <b>4194.0</b><br><b>Landscape Site</b>                | <b>4194.01</b><br>Construct steps and landings and install pre-made units | <b>4194.02</b><br>Apply finish grades, top soils or driveway materials  |  |   |   |
| <b>4195.0</b><br><b>Construct Stairways</b>           | <b>4195.01</b><br>Calculate unit rise and run to establish stairway shape | <b>4195.02</b><br>Build stringer pattern for trial fit from unit calculations, selecting the correct size and grade of lumber | <b>4195.03</b><br>Build additional stringers, from a pattern to build stairways by cutting risers and treads           | <b>4195.04</b><br>Install risers and treads into stringers                                    | <b>4195.05</b><br>Set stairway in place; level, shim and fasten; levelling in place |
| <b>4196.0</b><br><b>Manage a Construction Project</b> | <b>4196.01</b><br>Inspect building site                                   | <b>4196.02</b><br>Prepare and implement project timetable   | <b>4196.03</b><br>Estimate project materials, supplies and labour requirements from plans, drawings and specifications | <b>4196.04</b><br>Verify deliveries of materials and supplies                                 | <b>4196.05</b><br>Supervise/monitor, work performed                                 |
|   | <b>4196.06</b><br>Prepare progress and other reports                      | <b>4196.07</b><br>Sub-contract for construction activities  | <b>4196.08</b><br>Promote workplace labour relations   | <b>4196.09</b><br>Consult with customer, suppliers, architects, sub-contractors and workforce | <b>4196.10</b><br>Establish/monitor workplace safety programs                       |