

**COMPETENCY ANALYSIS PROFILE**  
**General Carpenter – 403A**

*(All unshaded skill sets must be demonstrated/completed)*

**SKILL SETS**

**SKILLS**

<b>PROTECT SELF AND OTHERS</b>       <b>1451.0</b>	Apply safety legislation       1451.01	Use personal protective equipment       1451.02	Apply safety measures in the shop and on the job site       1451.03	Apply prescribed procedures at an accident or a hazard       1451.04	Apply fire safety practices       1451.05
	Construct ladders       1451.06	Set up ladders       1451.07	Work on ladders       1451.08	Maintain ladders       1451.09	Use rigging equipment       1451.10
	Use swing stages       1451.11	Use powered elevated work platforms       1451.12	Use spiders and bosun chairs       1451.13		
<b>OPERATE TOOLS AND EQUIPMENT</b>       <b>1452.0</b>	Use hand tools       1452.01	Operate portable power tools       1452.02	Operate stationary power tools and equipment       1452.03	Design jigs and templates       1452.04	Use pre-fabricated and fabricated jigs and templates       1452.05

**SKILL SETS**

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<b>ESTABLISH BUILDING PROCEDURES</b>          <b>1453.0</b>	Perform trade-related calculations	Prepare sketches	Uses plans and sketches	Communicate with co-workers, supervisors and other tradespersons	Apply trade-related written and spoken information
	1453.01	1453.02	1453.03	1453.04	1453.05
	Establish procedures for installing pre-manufactured materials or equipment	Manage work site	Estimate material		
	1453.06	1453.07	1453.08		

<b>PREPARE SITE FOR BUILDING</b>          <b>1454.0</b>	Prepare site for layout	Lay out buildings according to plot and foundation plans	Lay out piling and caissons for foundations and shore protection	Install piling and caissons for foundations and shore protection	Install shoring for trench, road and building stabilization
	1454.01	1454.02	1454.03	1454.04	1454.05
	Prepare ground for preserved wood foundation (PWF) and slab on grade	Install underpinning	Plan access and egress on job site		
	1454.06	1454.07	1454.08		

**SKILL SETS**

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<b>EXECUTE FORM WORK</b>	Lay out embedded steel	Construct embedded steel	Install embedded steel	Lay out footing forms	Construct footing forms
<b>1455.0</b>	1455.01	1455.02	1455.03	1455.04	1455.05
	Install footing forms	Lay out forms for columns, piers and capitals	Construct forms for columns, piers and capitals	Install forms for columns, piers and capitals	Lay out wall forms
	1455.06	1455.07	1455.08	1455.09	1455.10
	Construct wall forms	Install wall forms	Lay out templates to receive dowels and anchor bolts	Build templates to receive dowels and anchor bolts	Lay out beam and girder forms
	1455.11	1455.12	1455.13	1455.14	1455.15
	Construct beam and girder forms	Install beam and girder forms	Lay out shoring	Construct shoring	Install shoring
	1455.16	1455.17	1455.18	1455.19	1455.20
	Lay out suspended slab forms	Install suspended slab forms	Lay out slab-on-grade	Install slab-on-grade	Lay out stair forms
	1455.21	1455.22	1455.23	1455.24	1455.25
	Construct stair forms	Install stair forms	Lay out forms for ramps and runways	Construct forms for ramps and runways	Install forms for ramps and runways
	1455.26	1455.27	1455.28	1455.29	1455.30
	Lay out slip forms	Construct slip forms	Install slip forms	Lay out various movable wall form systems	Construct various movable wall form systems
	1455.31	1455.32	1455.33	1455.34	1455.35

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<b>EXECUTE FORM WORK - <u>Cont'd</u></b>  <b>1455.0</b>	Install various movable wall form systems	Lay out forms to encase structural steel	Build forms to encase structural steel	Install forms to encase structural steel	Lay out insulated concrete forms
	1455.36	1455.37	1455.38	1455.39	1455.40
	Construct insulated concrete forms	Install insulated concrete forms	Strip concrete forms	Perform slump test on concrete	Re-shore completed structures
	1455.41	1455.42	1455.43	1455.44	1455.45
	Store forms	Place concrete	Consolidate concrete	Finish concrete	Control rate of curing concrete
1455.46	1455.47	1455.48	1455.49	1455.50	
Lay out locations of pre-cast systems and pre-stressed concrete	Install pre-cast systems and pre-stressed concrete	Lay out grout forms	Construct grout forms	Install grout forms	
1455.51	1455.52	1455.53	1455.54	1455.55	

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<p><b>FRAME FLOORS AND WALLS</b></p> <p><b>1456.0</b></p>	<p>Lay out preserved wood foundation (PWF)</p> <p>1456.01</p>	<p>Construct preserved wood foundation (PWF)</p> <p>1456.02</p>	<p>Install preserved wood foundation (PWF)</p> <p>1456.03</p>	<p>Lay out floor framing</p> <p>1456.04</p>	<p>Install floor framing</p> <p>1456.05</p>
	<p>Lay out walls for platform-style framing</p> <p>1456.06</p>	<p>Construct walls for platform-style framing</p> <p>1456.07</p>	<p>Install walls for platform-style framing</p> <p>1456.08</p>	<p>Lay out walls for balloon-style framing</p> <p>1456.09</p>	<p>Construct walls for balloon-style framing in</p> <p>1456.10</p>
	<p>Install walls for balloon-style framing</p> <p>1456.11</p>	<p>Lay out energy-efficient framing</p> <p>1456.12</p>	<p>Lay out modular factory prefabricated units</p> <p>1456.13</p>	<p>Construct modular factory prefabricated units</p> <p>1456.14</p>	<p>Install modular factory prefabricated units</p> <p>1456.15</p>
	<p>Construct acoustic fire cavity and party walls</p> <p>1456.16</p>	<p>Frame allowances for building services and utilities</p> <p>1456.17</p>			



**SKILL SETS**

**SKILLS**

<p><b>CONSTRUCT HEAVY FRAMING</b></p> <p><b>1458.0</b></p>	<p>Lay out heavy floor framing</p> <p>1458.01</p>	<p>Construct heavy floor framing</p> <p>1458.02</p>	<p>Install heavy floor framing and lay floor planking</p> <p>1458.03</p>	<p>Lay out wood post and beam components</p> <p>1458.04</p>	<p>Construct wood post and beam components</p> <p>1458.05</p>
	<p>Install wood post and beam components</p> <p>1458.06</p>	<p>Lay out roof frame for post and beam structure</p> <p>1458.07</p>	<p>Construct roof frame for post and beam structure</p> <p>1458.08</p>	<p>Install roof frame for post and beam structure</p> <p>1458.09</p>	<p>Lay out wall fill-in for post and beam structure</p> <p>1458.10</p>
	<p>Construct wall fill-in for post and beam structure</p> <p>1458.11</p>	<p>Install wall fill-in for post and beam structure</p> <p>1458.12</p>	<p>Lay out timber trusses</p> <p>1458.13</p>	<p>Construct timber trusses</p> <p>1458.14</p>	<p>Install timber trusses</p> <p>1458.15</p>
	<p>Lay out position of trusses on a wall</p> <p>1458.16</p>	<p>Lay out ramps, runways, chutes, splash-boards, and bents (trestles)</p> <p>1458.17</p>	<p>Construct ramps, runways, chutes, splash-boards, and bents (trestle)</p> <p>1458.18</p>	<p>Install ramps, runways, chutes, splash-boards, and bents (trestles)</p> <p>1458.19</p>	<p>Lay out pole barns</p> <p>1458.20</p>
	<p>Construct pole barns</p> <p>1458.21</p>				

**SKILL SETS**

**SKILLS**

<b>BUILD STAIRS</b>          <b>1459.0</b>	Lay out straight stairs	Construct straight stairs	Install straight stairs	Lay out landings for stairs	Construct landings for stairs
	1459.01	1459.02	1459.03	1459.04	1459.05
	Install landings for stairs	Lay out winder stairs	Construct winder stairs	Install winder stairs	Lay out pre-fabricated stairs
	1459.06	1459.07	1459.08	1459.09	1459.10
	Construct pre-fabricated stairs	Install pre-fabricated stairs	Lay out newel posts, handrails and balustrades	Construct newel posts, handrails and balustrades	Install newel posts, handrails and balustrades
	1459.11	1459.12	1459.13	1459.14	1459.15

<b>INSTALL DOORS, FRAMES AND HARDWARE</b>          <b>1460.0</b>	Lay out frames and movable partitions.	Construct frames and movable partitions.	Install frames and movable partitions	Lay out door systems	Construct door systems
	1460.01	1460.02	1460.03	1460.04	1460.05
	Install door systems	Lay out overhead doors, rollup shutters and roll-up doors	Install overhead doors, rollup shutters and roll-up doors	Lay out manual and electrical-activated hardware	Install manual and electrical-activated hardware
	1460.06	1460.07	1460.08	1460.09	1460.10

<b>INSTALL WINDOWS</b>          <b>1461.0</b>	Install exterior window systems	Lay out interior windows	Construct interior windows	Install interior windows	
	1461.01	1461.02	1461.03	1461.04	



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**SKILLS**

<b>INSTALL EXTERIOR FINISHING MATERIALS</b>  <b>1462.0</b>	Lay out exterior siding and trim	Construct siding components	Install siding components	Construct trim components	Install exterior siding and trim
	1462.01	1462.02	1462.03	1462.04	1462.05
	Lay out cornice components	Construct cornice components	Install cornice components	Lay out roof coverings, roof vents and flashing	Construct roof coverings, roof vents and flashing
	1462.06	1462.07	1462.08	1462.09	1462.10
	Install roof coverings, roof vents and flashing	Lay out exterior decks	Construct exterior decks	Install exterior decks	
	1462.11	1462.12	1462.13	1462.14	

<b>INSTALL FINISHED MATERIALS TO WALLS AND CEILINGS</b>  <b>1463.0</b>	Lay out wall and ceiling for finishes	Construct wall and ceiling for finishes	Prepare wall and ceiling for finishes	Install acoustic and thermal insulation and vapour barriers	Apply energy-efficient construction techniques
	1463.01	1463.02	1463.03	1463.04	1463.05
	Lay out wall and ceiling coverings	Construct wall and ceiling coverings	Install wall and ceiling coverings	Lay out suspended ceiling systems	Construct suspended ceiling systems
	1463.06	1463.07	1463.08	1463.09	1463.10
	Install suspended ceiling systems				
	1463.11				

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<p><b>INSTALL INTERIOR FINISHING MATERIALS AND HARDWARE</b></p> <p><b>1464.0</b></p>	<p>Lay out vertical trim</p> <p>1464.01</p>	<p>Construct horizontal and vertical trim</p> <p>1464.02</p>	<p>Install horizontal and vertical trim</p> <p>1464.03</p>	<p>Lay out millwork</p> <p>1464.04</p>	<p>Construct millwork</p> <p>1464.05</p>
	<p>Install millwork</p> <p>1464.06</p>	<p>Lay out pre-fabricated kitchens, bathrooms, vanities and countertops</p> <p>1464.07</p>	<p>Install pre-fabricated kitchens, bathrooms, vanities and countertops</p> <p>1464.08</p>	<p>Lay out wood, composite and other manufactured finished and unfinished floors and accessories, underlay, and special base preparations</p> <p>1464.09</p>	<p>Construct wood, composite and other manufactured finished and unfinished floors and accessories, underlay, and special base preparations</p> <p>1464.10</p>
	<p>Install wood, composite and other manufactured finished and unfinished floors and accessories, underlay, and special base preparations</p> <p>1464.11</p>	<p>Lay out demountable wall systems</p> <p>1464.12</p>	<p>Construct demountable wall systems</p> <p>1464.13</p>	<p>Install demountable wall systems</p> <p>1464.14</p>	<p>Dismantle demountable wall systems</p> <p>1464.15</p>
	<p>Lay out arena seating</p> <p>1464.16</p>	<p>Construct arena seating</p> <p>1464.17</p>	<p>Install arena seating</p> <p>1464.18</p>	<p>Select materials to receive finishes</p> <p>1464.19</p>	<p>Lay out interior hardware</p> <p>1464.20</p>
	<p>Install interior hardware</p> <p>1464.21</p>				

**SKILL SETS**

**SKILLS**

<b>PERFORM LANDSCAPE AND SITE WORK</b>  <b>1465.0</b>	Lay out fences, guard rails, blast walls, protective barriers, sound barriers and retaining walls  1465.01	Construct fences, guard rails, blast walls, protective barriers, sound barriers and retaining walls  1465.02	Install fences, guard rails, blast walls, protective barriers, sound barriers and retaining walls  1465.03	Lay out benches and timber steps  1465.04	Construct benches and timber steps  1465.05
	Install benches and timber steps  1465.06	Lay out docks, piers, bridges and gazebos  1465.07	Construct docks, piers, bridges and gazebos  1465.08	Install docks, piers, bridges and gazebos  1465.09	Lay out traffic and pedestrian control  1465.10
	Construct traffic and pedestrian control  1465.11	Install traffic and pedestrian control  1465.12	Lay out recreational site components  1465.13	Construct recreational site components  1465.14	Install recreational site components  1465.15

<b>PERFORM RENOVATIONS</b>  <b>1466.0</b>	Protect existing structures  1466.01	Remove interior finishes and exterior finishes  1466.02	Alter existing structures  1466.03	Lay out new structural components  1466.04	Construct new structural components  1466.05
	Install new structural components  1466.06				

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<b>ERECT AND DISMANTLE SCAFFOLDS</b>  <b>1467.0</b>	Lay out wood scaffolds	Construct wood scaffolds	Install wood scaffolds	Dismantle wood scaffolds	Lay out sectional frame access scaffolding
	1467.01	1467.02	1467.03	1467.04	1467.05
	Construct sectional frame access scaffolding	Install sectional frame access scaffolding	Dismantle sectional frame access scaffolding	Lay out rolling scaffolding	Construct rolling scaffolding
	1467.06	1467.07	1467.08	1467.09	1467.10
	Dismantle rolling scaffolding	Lay out tube and clamp scaffolding	Construct tube and clamp scaffolding	Install tube and clamp scaffolding	Dismantle tube and clamp scaffolding
	1467.11	1467.12	1467.13	1467.14	1467.15
	Lay out system scaffolding	Construct system scaffolding	Install system scaffolding	Dismantle system scaffolding	Construct hanging scaffolds
	1467.16	1467.17	1467.18	1467.19	1467.20

<b>CUT AND WELD MILD STEEL</b>  <b>1468.0</b>	Cut mild steel using quick cut, grinder, metal cut-off saw and reciprocating saw	Set up oxy-fuel cutting equipment	Cut mild steel with oxy-fuel equipment	Set up shielded metal arc welding equipment	Prepare for welding
	1468.01	1468.02	1468.03	1468.04	1468.05
	Weld with the shielded metal arc welding (SMAW) process				
	1468.06				

