

Gasfitter B POA (2010) Subtask to Unit Comparison
Note: Tasks 15 through 17 relate to The Gasfitter A Program

NOA Subtask		Manitoba Unit(s)
Task 1 – Participates in workplace health and safety practices.		
1.01	Demonstrates basic safety awareness.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
1.02	Uses safety gear and personal protective equipment.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
1.03	Maintains a safe workplace environment.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
1.04	Installs and Maintains Liquid Petroleum (LP) Storage and Handling Facilities.	A6 Gas Code (includes Propane)
		A8 Sciences I (includes heat load calculations, fan laws, & pumps)
		B9 Alternate Fuel Systems
1.05	Follows Safety/Health Acts and regulations.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
Task 2 – Uses equipment, hand/power tools, instruments, and wiring methods.		
2.01	Uses hand tools.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
2.02	Uses power tools.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
2.03	Uses powder-actuated tools.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
2.04	Uses technical instruments, and testers.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
2.05	Operates arial platforms and other lift-trucks.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
2.06	Follow approved wiring methods.	A2 Trade Safety Awareness
		A5 Electrical Fundamentals and CE Code
2.07	Solders wire.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
Task 3 – Reads and interprets prints, and manuals.		
3.01	Reads and interprets codes, company policies, company maintenance manuals, and manufacturer manuals.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others

NOA Subtask		Manitoba Unit(s)
3.02	Reads and interprets drawings (e.g., electrical, structural, architectural, mechanical and civil, block diagrams, and PLC logic drawings).	A4 Drawings & Blueprints
3.03	Reads and interprets Canadian Gas Codes, and the Manitoba Regulation	A2 Trade Safety Awareness
		A6 Gas Code (includes Propane)
		A10 Communications with Co-workers and Others
Task 4 Communicates on the job.		
4.01	Establishes and maintains effective communications with co-workers and others.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
4.02	Uses computers.	A9 Computers
4.03	Uses telephone and fax.	A10 Communications with Co-workers and Others
4.04	Demonstrates use of hand signals and two-way radios.	A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
4.05	Uses diagrams, schedules, and charts to communicate.	A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
4.06	Completes documentation, and reports.	A10 Communications with Co-workers and Others
Task 5 – Trains personnel.		
5.01	Conducts orientation.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
5.02	Assesses capabilities.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
5.03	Provides direction, guidance.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
5.04	Supervises, monitors.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
5.05	Evaluates performance.	A1 Introduction to Your Apprenticeship
		A2 Trade Safety Awareness
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
Task 6 – Uses mathematical and scientific methods fundamental to the gasfitter trade.		
6.01	Performs mathematical operations required to solve technical problems.	A7 Mathematics
		A8 Sciences I (includes heat load calculations, fan laws, & pumps)
6.02	Applies scientific principles to the solution of technical problems.	A8 Sciences I (includes heat load calculations, fan laws, & pumps)
Task 7 – Uses basic electrical, electronic, and digital devices and circuits.		
7.01	Applies electrical concepts to job-	A5 Electrical Fundamentals and CE Code

NOA Subtask		Manitoba Unit(s)
	related tasks.	
		B 6 Electrical Requirements
7.02	Applies electronic concepts to job-related tasks.	A5 Electrical Fundamentals and CE Code
		B 6 Electrical Requirements
7.03	Applies digital logic concepts to job-related tasks.	A5 Electrical Fundamentals and CE Code
		B 6 Electrical Requirements
7.04	Analyzes single and three-phase systems.	A5 Electrical Fundamentals and CE Code
		B 6 Electrical Requirements
Task 8 - Maintains and Services Gas-fired Equipment.		
8.01	Maintains Gas-fired Equipment.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B.5 Tests/Inspects Piping & Gas Appliance Efficiency
8.02	Services Gas-fired Equipment.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B.5 Tests/Inspects Piping & Gas Appliance Efficiency
Task 9 – Joins copper tube and tubing for Gas systems.		
9.01	Cuts copper tube and tubing for gas systems.	B3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
9.02	Bends copper tube and tubing for gas systems.	B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
9.03	Joins copper tube and tubing for gas systems.	B1 Gas/Safety Control Requirements
		B3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
Task 10 – Joins plastic pipe for gas systems.		
10.01	Cuts plastic pipe for gas systems.	B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
10.02	Joins plastic pipe for gas systems.	B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand,

NOA Subtask		Manitoba Unit(s)
		Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
Task 11 – Joins steel pipe for gas systems.		
11.01	Cuts steel pipe for gas systems	B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
11.02	Joins steel pipe for gas systems	B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
Task 12 – Performs Layouts and Pipesizing of 'B' Gas-Fired Equipment.		
12.01	Performs 'B' Gas-Fired Equipment Layouts.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
12.02	Pipesizes Gas-Fired Equipment.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
12.03	Sizes venting and air supply systems.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B2 Supply Air/Venting Permit Requirements
Task 13 – Installs 'B' Gas-Fired Equipment.		
13.01	Installs piping.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A6 Gas Code (includes Propane)
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
13.02	Installs equipment.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A6 Gas Code (includes Propane)
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
13.03	Installs electrical and controls	A5 Electrical Fundamentals and CE Code
		A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 6 Electrical Requirements
13.04	Installs venting and air supply systems.	A5 Electrical Fundamentals and CE Code
		B 1 Gas/Safety Control Requirements

NOA Subtask		Manitoba Unit(s)
		B2 Supply Air/Venting Permit Requirements
		A6 Gas Code (includes Propane)
Task 14 – Tests and Inspects ‘B’ Gas-Fired Equipment.		
14.01	Tests and Inspects gas-piping system.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A6 Gas Code (includes Propane)
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
14.02	Performs manufacturer’s start-up procedure.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
14.03	Inspects gas piping system.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
14.04	Completes start-up procedure.	A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
Task 15 – Performs Layouts and Pipesizing of “A” Gas-Fired Equipment.		
15.01	Performs “A” Gas-Fired Equipment layouts.	NOT APPLICABLE
15.02	Pipesizes “A” Gas-Fired Equipment.	NOT APPLICABLE
15.03	Sizes venting and air supply systems.	NOT APPLICABLE
Task 16 – Installs ‘A’ Gas-Fired Equipment.		
16.01	Installs piping.	NOT APPLICABLE
16.02	Installs equipment.	NOT APPLICABLE
16.03	Installs electrical equipment and controls.	NOT APPLICABLE
16.04	Installs venting and air supply systems.	NOT APPLICABLE
Task 17 – Tests and Inspects A Gas-Fired Equipment.		
17.01	Tests gas piping system.	NOT APPLICABLE
17.02	Performs manufacturer’s start-up procedure.	NOT APPLICABLE
17.03	Inspects gas piping system.	NOT APPLICABLE
17.04	Completes start-up procedure.	NOT APPLICABLE
Task 18 – Troubleshoots gas equipment.		
18.01	Recognizes and analyzes problem.	A5 Electrical Fundamentals and CE Code

NOA Subtask		Manitoba Unit(s)
		A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B2 Supply Air/Venting Permit Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
		B 6 Electrical Requirements
		B8 Applied Trade Projects
		B9 Alternate Fuel Systems
18.02	Selects tools, equipment, and personnel to address problem.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B7 Mentoring/Coaching
		B8 Applied Trade Projects
Task 19 – Repairs Gas Equipment.		
19.01	Resolves problem.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A5 Electrical Fundamentals and CE Code
		A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B2 Supply Air/Venting Permit Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
		B 6 Electrical Requirements
		B8 Applied Trade Projects
		B9 Alternate Fuel Systems
19.02	Verifies problem has been resolved.	A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A5 Electrical Fundamentals and CE Code
		A6 Gas Code (includes Propane)
		B 1 Gas/Safety Control Requirements
		B2 Supply Air/Venting Permit Requirements
		B 3 Gas Burning Equip. & Materials Determination/Burner Orifice Sizing/Conversion Work
		B4 Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure & Measurement Requirements
		B5 Tests/Inspects Piping & Gas Appliance Efficiency
		B 6 Electrical Requirements
		B8 Applied Trade Projects
		B9 Alternate Fuel Systems
Task 20 – Plans project requirements.		
20.01	Plans project requirements.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A5 Electrical Fundamentals and CE Code
		A6 Gas Code (includes Propane)
		A10 Communications with Co-workers and Others

NOA Subtask		Manitoba Unit(s)
		B2 Supply Air/Venting Permit Requirements
		B7 Mentoring/Coaching
		B8 Applied Trade Projects
20.02	Estimates budget and cost-control.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A5 Electrical Fundamentals and CE Code
		A6 Gas Code (includes Propane)
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
		B8 Applied Trade Projects
20.03	Schedules activities.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
		B8 Applied Trade Projects
20.04	Organizes materials and tools.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
		B8 Applied Trade Projects
20.05	Coordinates labour and other trade requirements.	A2 Trade Safety Awareness
		A3 Tools and Equipment (includes Piping, Soldering-2hrs, & Steel Welding-6 hrs)
		A10 Communications with Co-workers and Others
		B7 Mentoring/Coaching
		B8 Applied Trade Projects