



# GASFITTER CLASS B

# 2018

Implement in January 2018 (pg. 1 for Program Structure)



## Program Structure – Nova Scotia Apprenticeship Program

The courses listed below are required technical training in the Nova Scotia Apprenticeship Program.

Nova Scotia Course No.	Nova Scotia Course Name	CSA Modules	
		No.	Title
<b>Level 1 Online Courses (9 courses)</b>			
MENT-700	Mentoring I - see pg. 2	N/A	N/A
GFBA-1810	Safety, Policies and Regulations	GFB-100	Safety
		GFB-105	Properties, Characteristics and Safe Handling of Fuel Gases
		GFB-110	Utilization Codes, Acts and Regulations
		GFB-110	Customer Relations
GFBA-1811	Tools, Equipment, Technical Manuals, Specifications and Drawings	GFB-120	Fasteners, Hand Tools and Testing Instruments
		GFB-125	Technical Manuals, Specifications, Schematics, Drawings and Graphics
GFBA-1812	Introduction to Electricity and Controls	GFB-130	Introduction to Electricity
		GFB-135	Controls: Fundamentals
GFBA-1813	Introduction to Gas Appliances	GFB-140	Introduction to Gas Appliances
GFBA-1814	Gas Appliances	GFB-145	Domestic Appliances
		GFB-150	Gas-fired Refrigerators
		GFB-155	Space Heaters
GFBA-1815	Introduction to Piping and Tubing Systems	GFB-160	Introduction to Piping and Tubing Systems
GFBA-1816	Building Science and Air Handling	GFB-165	The Building as a System
		GFB-170	Air-handling
GFBA-1817	Forced Air Systems	GFB-175	Conversion Burners
		GFB-180	Forced Warm-Air Heating Systems
		GFB-185	Forced Air Add-on Devices
GFBA-1818	Hydronic and Domestic Water Heat	GFB-190	Water Heaters and Combination Systems
		GFB-195	Hydronic Heating Systems
<b>Level 2 In-class (6 weeks)</b>			
MENT-701	Mentoring II - see pg. 4	N/A	N/A
GFBA-1819	Safety, Job Planning, Lifting, Rigging and Hoisting	GFB-200	Safety, Job Planning, Lifting, Rigging and Hoisting
GFBA-1820	Piping and Tubing Systems (2-week course)	GFB-205	Piping and Tubing Systems for Industrial and Commercial Applications
		GFB-210	Pressure Regulators, Overpressure Protection, Meters and Fuel Containers
		GFB-215	Tools, Equipment and Piping Lab
GFBA-1821	Venting	GFB-220	Venting Practices
GFBA-1822	Basic Electricity and Controls	GFB-225	Basic Electricity for Gas-fired Equipment
		GFB-230	Controls: Fundamentals
		GFB-235	Electrical and Controls Lab
GFBA-1823	Program Review (Class B)	GFB-240	Program Review

## **MENT-700 Mentoring I**

### **Learning Outcomes:**

- Demonstrate knowledge of effective communication practices as a learner.
- Demonstrate knowledge of strategies for learning skills in the workplace.

### **Suggested Hours:**

6 hours

### **Theoretical Objectives:**

1. Describe the importance of one's own individual experiences.
2. Identify behaviours that demonstrate positive learning experiences.
3. Identify the benefits of workplace mentoring for the apprentice, mentor, and employer.
4. Identify the partners involved in apprenticeship training.
5. Describe the shared responsibilities for workplace learning in apprenticeship.
6. Identify different learning needs and strategies to address challenges or barriers in the workplace.
  - i) learning disabilities
  - ii) language
  - iii) underrepresentation
7. Identify the components that create a positive and inclusive workplace culture.
  - i) workplace characteristics
  - ii) individual behaviours
8. Identify various learning styles and determine one's own learning preferences.
9. Explain how learning preferences impact learning new skills.
10. Identify different learning strategies to meet individual learning needs.
11. Describe the importance of adapting to a variety of teaching and learning methods in the workplace.
12. Identify techniques for effective communication as a learner.
  - i) verbal and non-verbal
  - ii) active listening

13. Identify and describe personal responsibilities and attitudes that contribute to on-the-job success.

- i) self advocating
- ii) asking questions
- iii) accepting constructive feedback
- iv) working safely
- v) employing time management techniques and being punctual

**Practical Objectives:**

N/A

## MENT-701 MENTORING II

### Learning Outcomes:

- Demonstrate knowledge of effective communication practices as a mentor.
- Demonstrate knowledge of strategies for teaching workplace skills.

### Suggested Hours:

6 hours

### Learning Objectives:

1. Identify the different roles played by a workplace mentor.
2. Identify strategies to create a supportive learning environment.
3. Identify techniques for effective communication as a mentor.
  - i) constructive feedback
  - ii) active listening
  - iii) leading meetings and one-on-one sessions
4. Describe the steps in teaching a skill.
  - i) identifying the point of lesson
  - ii) linking the lesson
  - iii) demonstrating the skill
  - iv) providing practice
  - v) giving feedback
  - vi) assessing skill and progress
5. Identify strategies to assist in teaching a skill while meeting individual learning needs.
  - i) principles of instruction
  - ii) coaching skills
6. Explain how to adjust a lesson for various situations.