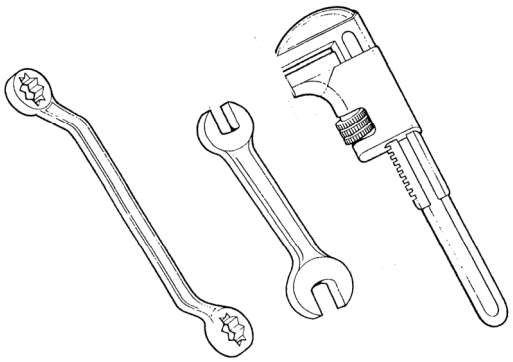
Trade of Plumbing

Module 3: Domestic Heating/MMA Welding

Unit 4: Commissioning and Maintenance

Phase 2



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Document Release History

Date	Version	Comments
June 2006	V.1.0	
17/02/14	2.0	SOLAS transfer

Module 4 – Domestic Hot and Cold Services

Unit 4 – Commissioning and Maintenance

Duration – 15 Hours

Learning Outcome:

By the end of this unit each apprentice will be able to:

- Describe the commissioning procedure for domestic heating systems.
- Describe the purpose and procedure for balancing heating systems.
- Replace radiator valves and pumps in domestic heating systems.

Key Learning Points:

Rk	**Commissioning procedures.**
Rk Sc	**Flushing through heating systems.**
Sk	**Filling and venting system.**
Sk	**Venting and adjusting pump.**
Sk	**Checking for leaks.**
RK Sk	**Balancing a heating system.**
Sk	**Identification of valves.**
Sk	**Checking safety valve.**
Sk	**Checking feed and expansion tank, water level, expansion pipe, overflow.**
Rk	**Chemical treatment for heating systems.**
Sk	**Draining heating system.**
Sk	**Replacing radiator valves.**
Rk	**Isolation of electrical supply.**
Sk	**Replacing pump.**
Rk	**Air locks in heating systems.**
Rk	**Cold spots in radiators, flushing radiators.**
P	**Communication and teamwork.**

Training Resources:

- Classroom facilities.
- Information sheets.
- Workshop facilities.
- Domestic heating system.

Key Learning Points Code

M = Maths D= Drawing RK = Related Knowledge Sc = Science

P = Personal Skills Sk = Skill H = Hazards

About Unit 4

This unit is primarily a skill based unit, please refer to your instructor.

Self Assessment

Exercise

1. Describe the sequence of events when commissioning a heating system.
2. State the purpose and procedure for balancing a heating system.
3. State the pressure at which a domestic heating safety valve should open.

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