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CREATING SUSTAINABLE COMMUNITIES

Climate Care – Course Outline

Develop and Advise on Domestic Plumbing Climate Care Measures

This unit is designed to develop skills in effectively reducing the greenhouse gas emission impacts of household plumbing services.

Work associated with this unit is undertaken within the plumbing and services sector in accordance with relevant US Standards.

It is a pre-requisite that all participants seeking accreditation of the ‘Course in GreenPlumbers Environmental Solutions’ are required to be licensed, employed by a licensee and/or a registered plumbing practitioners with a regulatory authority.

This unit must also be successfully completed prior to undertaking “Prepare a Domestic Plumbing Report” within the ‘Course in GreenPlumbers Environmental Solutions’.

Nominal Hours - 8

Performance Criteria

Performance criteria specify the level of performance required to demonstrate achievement of the element.

1. Identify the greenhouse effect and global warming

- 1.1 Advise customers as to what *the greenhouse effect/greenhouse gases* are.
- 1.2 Identify greenhouse gases related to domestic plumbing appliances.
- 1.2 Advise customers as to how greenhouse gases are generated.
- 1.3 Identify impacts of greenhouse gases on the environment.

Advise customers as to the environmental and political issues of greenhouse gas emissions and reduction targets.



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2. Compile information on greenhouse and energy efficiency of appliances

- 2.1 Identify the environmental effects of gas and electricity generation on the environment.
- 2.2 Outline how hot water units/heating units and cooling systems affect the environment.
- 2.3 State future industry directions at improving appliance efficiency through *alternate technology systems*
- 2.4 Compare costs of alternate heating and cooling systems and hot water units.
- 2.5 Review case studies of *cost effective* installation of heating and cooling systems and hot water units, current and alternate.
- 2.6 Compare cost comparisons of alternate/renewable energy sources.

3. Compile energy conversion information

- 3.1 Identify alternative/renewable energy generation for plumbing appliances.
- 3.2 Provide advice on the advantages and disadvantages of different energy sources
- 3.3 Recognize design requirements

4. Relate energy star ratings to gas and electric appliances

- 4.1 Identify energy star ratings for appliances.
- 4.2 Specify key features of the energy rating label.



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4.3 Recognize the rating differences between gas and electric appliances.

4.4 Outline where to obtain the latest energy ratings for heating, cooling and heated water and other appliances.

5. Facilitate comprehensive advice to customers on appliance selection

5.1 Illustrate the decision making processes of customers.

5.2 Advise the most suitable appliance selection to the customer.

5.3 Recognize customer service strategies.