

CITB Refrigeration Pipework & Brazing Commercial & Industrial 2 Day - £315

1. General Safety

- 1.1 General Duties of Employers
- 1.2 General Duties of Employees
- 1.3 Control of Substances Hazardous to Health Regulations 1988 (COSHH)
- 1.4 Protection Against Burns from Flames and Sparks
- 1.5 Protection from Fumes
- 1.6 Transport
- 1.7 Storage
- 1.8 Safety
- 1.9 Gas Cylinders in Fires

2. Refrigeration Pipework

- 2.1 Introduction
- 2.2 Copper Tubing
- 2.3 Soft Drawn
- 2.4 Hard Drawn
- 2.5 Cutting Copper Tubing
- 2.6 Bending Copper Tubing
- 2.7 Flared Connections
- 2.8 Swaged Joint
- 2.9 Fittings

3. Oxy-Acetylene Equipment

- 3.1 Cylinder Safety Precautions
- 3.2 Acetylene
- 3.3 Explosion Risks
- 3.4 Oxygen
- 3.5 Gas Pressure Regulators
- 3.6 High Pressure Blowpipe
- 3.7 Backfires and Flashbacks
- 3.8 General Preparations
- 3.9 Setting the Gas Pressures
- 3.10 Lighting the Blowpipe
- 3.11 To Shut Down the Plant
- 3.12 Blowpipe Flame
- 3.13 The Neutral Flame
- 3.14 The Carburizing Flame
- 3.15 The Oxidising Flame
- 3.16 Power to the Flame
- 3.17 Brazing Alloys

4. Brazing Techniques

- 4.1 Cutting and Fitting
- 4.2 Cleaning
- 4.3 Proper Fluxing
- 4.4 Assembling and Supporting
- 4.5 Purging System with Dry Nitrogen
- 4.6 Heating and Flowing the Alloy
- 4.7 Cleaning After Brazing
- 4.8 Points to Remember
- 4.9 Caution
- 4.10 Installation Planning
- 4.11 Pre-Site Checks
- 4.12 Pre-Installation Checks
- 4.13 Pressure Testing

5. Typical Defects - Causes and Remedies

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