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## Practical Refrigeration Training Centre

### Course Details

# City and Guilds 6187-21 Copper Brazing

## Introduction

Brazing is an intrinsic skill in the refrigeration and air conditioning industry and this course aims to provide an understanding of brazing and silver soldering techniques as well as an insight into health and safety and the principles of using oxyacetylene brazing equipment.

## Objective

To attain a basic understanding of brazing and silver soldering to BS 2871 part 2 and achieve the City and Guilds 6187-21 Level 2 Award in Brazing Techniques for Refrigeration, Air Conditioning and Heat Pump Systems.

## Methodology

The topics will be covered using a combination of presentations and visual aids and practical sessions to learn and develop the necessary practical skills and underpinning theoretical knowledge.

Candidates will need to successfully complete both parts of unit 231/531 to obtain the necessary credits for the qualification:

### Unit 231

This is a theory test achieved by completing a multiple choice question paper set by City and Guilds.

### Unit 531

This is a test of practical skills completing a practical assignment set by City and Guilds.

Both units are marked during the course.





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### **Synopsis**

This course will cover the practical skills and underpinning knowledge to complete the City and Guilds 6187-21 Copper Brazing qualification, including the following topics:

- Safety 1 - the safe handling and storage of gas cylinders
- Safety 2 - selecting the correct equipment and clothing, recognizing fire hazards, and preparing basic risk assessments and method statements
- Gases - properties and good working practices
- Brazing materials
- Pipe preparation and joining equipment
- Welding methods, blowpipe pressures and welding flame conditions

