

## Level 3 Award in the Installation and Maintenance of Air Source Heat Pump Systems (non-refrigerant circuits)

Location	Stretford Campus
Course Type	Adult
Department	Building Services
Start Date	Tuesday 1st August 2023
Duration	Part-time, 1 Year
Time	18:00 - 21:00
Fee	£ 495.00 You may be eligible for support with your tuition fees - please visit the college website - funding and finance page for further information
Course Code	TPQ-BS3A-1300

### Course Overview

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This course combines both theory and practice and will run over three days. There will be multiple start dates throughout the academic year.

### Course Requirements

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You will need a minimum Level 2 plumbing or gas qualification or equivalent trade experience and both an energy efficiency certificate and a water regulations certificate

### What You Will Learn

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You will learn about the types of ground source heat pumps available including borehole, shallow collector and water collector. You will learn about the efficiency, sizing and positioning of systems and how to install them

### Assessment

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You will be assessed through several multiple-choice papers and complete a practical assessment on custom built test rigs

## Progression

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City & Guilds Level 3 Award in Initial Verification (2391-50)

City & Guilds Level 3 Award in the Periodic Inspection (2391-51)

City & Guilds Level 3 Award in Inspection and Testing (2391-52)

## Career Options

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The course will enable operatives to specify, survey, design and install domestic or small commercial heat pump systems, enlisting manufacturers support where required. Systems up to 24kW for ground source and 16kW for air source heat pumps are covered, plus the following areas:

Background to market

Heat pump regulations and guidance

Principles of ground and air source heat pump operation

Heat pump collector types

Heat distribution

Pre-installation requirements

Installation materials and methods

Filling, flushing and testing

Setting to work, commissioning

Heat pump servicing and fault finding

## Mandatory Units

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LCL-R3035: Core unit in Heat Pump Technology (Non-Refrigerant Circuit)

LCL-R3036: Air Source unit in Heat Pump Technology (Non-Refrigerant Circuit)

LCL-R3037: Ground Source Unit in Heat Pump Technology (Non-Refrigerant Circuit)

## Contact Details

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For further information please contact T: 0161 886 7070 or E: [info@trafford.ac.uk](mailto:info@trafford.ac.uk)

## Disclaimer

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Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.