



CERTIFICATE OF VALIDATION

New validation

Validation Process: **New**

| | |
|---------------------------|---|
| Provider Name | Limerick & Clare Education and Training Board |
| Date of Validation | 01-Dec-22 |

| | Code | Title | Award | Exit Only |
|----------------------------|---------|--|--|-----------|
| Principal Programme | PG25154 | Level 5 Specific Purpose Certificate in Fgas Handling-RACHPTT Systems Category 2 | Specific Purpose Certificate (Special Purpose Award at NFQ Level 5) 5S21995 10 credits | N/A |
| Embedded Programme | N/A | | | |

| | First Intake | Last Intake |
|---------------------------|--------------|-------------|
| Enrolment Interval | Jan-23 | Dec-27 |

Principal Programme

| | Full Time | Part Time | Delivery Mode: full-time / part-time |
|-------------------------------------|-----------|-----------|--------------------------------------|
| Intakes per Annum: | 0 | 12 | Part Time |
| Minimum Learners per Intake: | 0 | 4 | |
| Maximum Learners per Intake: | 0 | 6 | |
| Duration (months) | N/A | 2.5 | |

Target Learner Groups

As this is compliance training specifically for the handling of F-gas, access to the programme is limited to learners who are actively working in the commissioning and servicing of refrigeration, air-conditioning and/or planning to work with heat pump systems (under 3 kg or up to 6kg within a hermetically sealed system).

Such learners must hold an advanced trades certificate, or equivalent academic qualification, possibly in a related field

Such learners must also complete an appropriate skill, knowledge and language assessment prior to acceptance on the programme.



Brief Synopsis of the Programmes

The purpose of this award is to equip the learner with the relevant knowledge, skill, and competence to carry out intrusive work on equipment containing up to 3 kg of fluorinated greenhouse gases. The following activities can be carried out on stationary refrigeration, air-conditioning and heat pump systems and the refrigeration units of refrigerated trucks and trailers that contain up to 3 kg of fluorinated greenhouse gases (F-gases) or less than 6 kg for systems if hermetically sealed, in compliance with current European Union (EU) and national regulations without supervision:

- Recovery, installation, repair, maintenance, servicing and decommissioning of equipment containing fluorinated greenhouse gases up to 3 kg or less than 6 kg for systems if hermetically sealed.
- Leak checking can be carried out on systems over 3 kg charge provided no Intrusive Works are carried out.

As stated in the Commission Implementing Regulation (Eu) 2015/2067 , Category 2 certificate holders may carry out the activities provided for in point (a) of Article 2(1) provided that it does not entail breaking into the refrigeration circuit containing fluorinated greenhouse gases. Category 2 certificate holders may carry out the activities in points (b), (c), (d) and (e) of Article 2(1) in relation to equipment referred to in Article 1 containing less than 3 kgs of fluorinated greenhouse gases or less than 6 kg for systems if hermetically sealed.

Due to recent legislative amendments in the construction sector air to water heat pump systems have gained in popularity as the main source of heating for homes and businesses alike. Although Category 2 F-gas cover all small equipment containing less than 3kg of fluorinated greenhouse gases the practical element of this award will be primarily focused on ATW HP Systems. Attendees will not be required to work on Refrigeration systems although the full theory content from Category 1 will be incorporated. One of the additional practical elements that will need to be included for this award will be the fabrication and enclosure of a RAC compression type joint. This training is planned for Mid-week or Saturdays.

Teaching and Learning Modes

1. Group Discussions
2. Self Directed Learning
3. Workshops

Approved Countries

Ireland

Physical Resource Requirements

The provider must have all of the following in place to offer this award, in addition to the QQI Awards Standard requirements:

1. Necessary tools and equipment to include: Air to Water Heat Pump Systems-Mono Block & Split Type operating on an HFO refrigerant such as R32 and including all relevant safety controls.
2. A2 Leak detection tools and instruments to include electronic leak detection equipment suitable for both direct and indirect leak detection method.
3. A2 Refrigerant recovery and charging equipment.
4. Pipe jointing equipment and tools.
5. Pressure testing equipment and tools.
6. Major components for replacement.
7. All necessary safety equipment.



| Staff Profiles | Qualifications and Experience | WTE |
|------------------------------|--|-------|
| Monitoring Evaluation Review | Qualifications as per relevant Person Specification in Job Descriptions as laid out by relevant authority. This would include a minimum Level 6 NFQ qualification with relevant experience in the areas of monitoring, evaluation and review | <0.25 |
| Certification | Internal Verification - Qualification at minimum L7 on NFQ or equivalent, or significant relevant work experience. Have completed an appropriate QA Development Programme. External Authentication - This will be carried out where possible, by an EA from the National ETBI EA Directory. There is a lack of SME EAs currently on the Directory. It is preferable that the EA has specific qualifications in the area of AC and Refrigeration as required by local EA Guidelines and Procedures. Currently where the above is not available, the EA must have at minimum either Mechanical Engineering or Electrical Engineering background. | <0.5 |
| Management | TSO - Qualification at minimum L7 on NFQ or equivalent, or significant relevant work experience. Have completed an appropriate QA Development Programme. Qualification at minimum L4 on NFQ or equivalent, or significant relevant work experience. Clerical Officer -Qualification at minimum L4 on NFQ or equivalent, or significant relevant work experience. Evening Course Manager - Qualification at minimum L7 on NFQ or equivalent, or significant relevant work experience. | <0.25 |
| Instructor | City & Guilds Level 3 Certificate in Assessing Vocational Achievement-TAQA City & Guilds Level 4 Award in the Internal Quality Assurance of Assessment Processes and Practice-TQAQ City & Guilds Level 4 Certificate in Leading the Internal QA of Assessment Processes and Practices-TAQA Level 6 National Craft Qualification in Refrigeration & Air Conditioning City & Guilds 2079-01 Certificate in F-gas and ODS Category 1 or QQI 5N21698. | 0.5 |

| Approved Centres | Centre | Minimum Number of Learners per Intake per Centre | Maximum Number of Learners per Intake per Centre |
|------------------|---|--|--|
| | 079155 FET Centre, Shannon Campus (Training Centre) | 4 | 6 |

| Additional Locations | Location Name | Minimum Enrolment per Annum | Maximum Enrolment per Annum |
|----------------------|---------------|-----------------------------|-----------------------------|
| | N/A | | |

| Learner Teacher Ratios | Learning Activity | Ratio |
|------------------------|-------------------------|-------|
| | Self Directed | n/a |
| | Workshop Sessions | 1:6 |
| | Group Directed Sessions | 1:6 |

| Programme being replaced by this Programme | Prog Code | Programme Title | Validated |
|--|-----------|-----------------|-----------|
| | N/A | | |



Conditions of Validation of the Programmes Covered by this Certificate of Validation

Part 1: Statutory Conditions of Validation

The statutory (section 45(3) of the 2012 Act) conditions of validation are that the provider of the programme shall:

1. Co-operate with and assist QQI in the performance of QQI's functions in so far as those functions relate to the functions of the provider,
2. Establish procedures which are fair and consistent for the assessment of enrolled learners to ensure the standards of knowledge, skill or competence determined by QQI under section 49 (1) are acquired, and where appropriate, demonstrated, by enrolled learners,
3. Continue to comply with section 65 of the 2012 Act in respect of arrangements for the protection of enrolled learners, if applicable, and
4. Provide to QQI such information as QQI may from time to time require for the purposes of the performance of its functions, including information in respect of completion rates.

Part 2 Conditions of Validation Established by QQI Under section 45(4)(b) of the 2012 Act

Part 2.1 Condition of Validation Concerning a Change in the QQI Award or Award Standard

1. Where QQI changes an award title, an award specification or an award standard that a programme depends upon, the provider shall not enrol any further learners on the affected programmes unless informed otherwise in writing by QQI (e.g. by the issue of a revised certificate of validation). The programme is considered validated for learners already enrolled on the affected programme.

Part 2.2 Condition of Validation Concerning the Duration of Enrolment

1. The duration of enrolment is the interval during which learners may be enrolled on the validated programme.

Validation is determined by QQI for a specified number of years of enrolment appropriate to the particular programme as indicated on the certificate on validation subject to unit 9.2.1. It is a condition of validation that the programme does not enrol any new learners outside this interval. A typical duration would be five years.

If a provider wishes to continue to enrol learners to the programme beyond this interval the provider must arrange in good time for it to be validated again by QQI, or exceptionally the provider may apply for extension of the duration of enrolment (unit (14)). In this context the provider may apply for validation of the programme from first principles or, alternatively, the provider may avail of the process for revalidation (unit (13)) by QQI.

Part 2.3 General Condition of Validation

The provider of the programme shall:

1. Ensure that the programme as implemented does not differ in a material way from the programme as validated; differing in a material way is defined as differing in any aspect of the programme or its implementation that was material to QQI's validation criteria.
2. Ensure that the programme is provided with the appropriate staff and physical resources as validated.
3. Implement in respect of the programme its written quality assurance procedures (as approved by QQI).
4. Make no significant change to the programme without the prior approval of QQI. (See unit (8)).
5. Unless otherwise agreed by QQI in writing, start implementing the programme as validated and enrol learners within 18 months of validation.
6. Continue in respect of the validated programme to comply with section 56 of the 2012 Act in respect of procedures for access, transfer and progression.
7. Implement the programme and procedures for assessment of learners in accordance with the Approved Programme Schedule and notify QQI in writing of any amendments to this arising from changes to the programme; see unit (9).
8. When advertising and promoting the programme and awards, use the programme title as validated, and the correct QQI award title(s), award type(s) and award class(es) indicating the level of the award(s) on the National Framework of Qualifications.



9. Adhere to QQI regulations and procedures for certification.

10. Notify QQI in writing without delay of: a. Any material change to the programme; a. Anything that impacts on the integrity or reputation of the programme or the corresponding QQI awards; b. Anything that infringes the conditions of validation; or c. Anything that would be likely to cause QQI to consider reviewing the validation.

11. Notify QQI in writing to determine the implications for the provider's validated programmes, where the provider is likely to, or planning to, merge (amalgamate) with another entity or to acquire, or be acquired by, another entity (see unit (12.5)) .

12. Report to QQI, when required or requested, on its implementation of the programme and compliance with the conditions of validation.

Part 2.4 General Condition of Validation Arising from Specialised Validation Policy and Criteria

1. N/A

Part 2.5 Special Conditions of Validation

1. N/A



Programme and stage schedules

PG25154 Level 5 Specific Purpose Certificate in Fgas Handling-RACHPTT Systems Category 2

| | | | | | | | | | | | | | | | |
|--|--------------------|--|------------------------|--|------------------------|----------------------|----------------------------|--------------------------|--------------------------------------|------------------------------------|---------------|------------------|-------------------------------|---------------|--------------------|
| Name of Provider | | Limerick & Clare Education and Training Board | | | | | | | | | | | | | |
| Programme Title | | PG25154 Level 5 Specific Purpose Certificate in Fgas Handling-RACHPTT Systems Category 2 | | | | | | | | | | | | | |
| Award Title | | Specific Purpose Certificate | | | | | | Exit Award Only | | N/A | | | | | |
| Teaching and learning modalities | | Group Discussions; Workshops; Self Directed Learning | | | | | | | | | | | | | |
| Delivery Modes | Award Class | Award NFQ Level | Award EQF Level | Stage | Stage NFQ Level | Stage Credits | First Intake | | ISCED Code | | | | | | |
| Part time | Special Purpose | 5 | 4 | Award Stage | 5 | 10 | Jan 2023 | | 07.1.9 | | | | | | |
| Module | | | | Total Student Effort Module (Hours) | | | | | | Allocation of Marks | | | | | |
| Title | | | Semester | Status | Credit | Total Hours | Class Contact Hours | Direct e-learning | Hours of independent learning | Work-based learning efforts | C.A. % | Project % | Skills demonstration % | Exam % | Workbased % |
| F-gas Handling in Small RACHPT&T Systems Cat 2 | | | Not Applicable | M | 10 | 100 | 40 | 0 | 60 | 0 | 0 | 0 | 70 | 30 | 0 |