Customer information sheet
Domestic elementary gas certificate

NICEIC package includes:

- lesson plans
- training materials
- assessment materials
- portfolio build templates.

Code	Core assessments	Practical provisions page(s)
Domestic EGC	N/A	N/A

Introduction

1 Standards of training in safe gas work training specification

This industry training specification represents the minimum requirement for new entrants into the gas industry. The training programme coupled with the real work environment evidence period is often referred to as a managed learning programme (MLP) and this particular managed learning programme is tailored to accommodate new entrants who have the aspiration to initially become domestic natural gas (installation and/or maintenance) engineers. The key scope of responsibility is the installation and maintenance of domestic pipework and appliances not exceeding 70kW net. The new entrant (learner) will initially complete the core units of competence. These core units of competence can also be completed in conjunction with appliance criteria units of the learner's choice.

2 NICEIC domesticelementary gas certificate specification

The "NICEIC elementary gas certificate for domestic natural gas (installation and maintenance) engineers, training and assessment programme specification, instructs the minimum requirement for our approved centres in delivering a credible learning experience. There are options open to new entrants (learners) based on the scope of appliance installation and maintenance work they wish to undertake. The new entrant learner must initially achieve and be awarded an elementary natural gas certificate, as a domestic installation and maintenance engineer. This certificate in itself is not sufficient to allow the individual to practice in the work environment unsupervised. The attainment of such a certificate is testament to having completed an approved managed learning programme accredited by a certification body (CB), delivered by a CB approved training provider, liaising closely with a gas safe registered company/engineer who is employing or offering a work placement to the learner for the duration of the programme. Once the certificate is attained and awarded the new entrant learner can apply as a candidate for the specific Accredited Certification Scheme (ACS) assessments related to their elementary gas certificate. (Refer to GN8.)

There is a range of criteria options available to the learner within the programme that leads to the award of the elementary gas certificate for domestic natural gas installation and maintenance engineers. We have included the following application pathways of choice for the learner. These are available for the learner to consider, take advice and choose.

Core pathway: this is a core prerequisite pathway for domestic natural gas safety. The programme will deliver knowledge and understanding of the required standards for domestic gas safety related to a domestic (I&M) engineer's responsibility. This includes the requirements for domestic natural gas legislation, characteristics of combustion, pressure and flow, installation pipe-work, safety controls, chimney/flue standards, ventilation requirements and unsafe situations when undertaking work in customer premises. Related to this, the core route also requires the learner to understand appliance safety. The core knowledge and understanding criteria, along with its practical application, once evident, gives the learner the core competency requirements to bolt on other pathway units. Examples include:

CKR pathway: this pathway delivers the knowledge, understanding and practical application for installing, commissioning and maintaining domestic gas cooking appliances.

HTR pathway: this pathway delivers the knowledge, understanding and practical application for installing, commissioning and maintaining domestic gas fires and wall heaters (flue-less, room sealed and open flue types).

CENWAT pathway: this pathway delivers the knowledge, understanding and practical application for installing, commissioning and maintaining domestic wet central heating/hot water boilers and circulators (system, combination, storage and instantaneous).

DAH pathway: this pathway delivers the knowledge, understanding and practical application for installing, commissioning and maintaining domestic gas ducted air heaters (open flue, room sealed, down flow, up flow and horizontal flow).

LAU pathway: this pathway delivers the knowledge, understanding and practical application for installing, commissioning and maintaining domestic gas laundry appliances (tumble dryers).

LEI pathway: this pathway delivers the knowledge, understanding and practical application for installing, commissioning and maintaining domestic gas leisure appliances such as patio heaters and barbecues.

ETFGE pathway: this pathway delivers the knowledge, understanding and practical application for working safely on gas appliances that rely on electrical equipment (controls and components) for operation. The pathway consists of two mandatory and two optional modules of training and assessment.

Learners will have the choice to tailor these pathways to their own aspirations and/or the needs of their employers. No appliance pathway can be progressed without the core unit. The learner requires selecting at least one appliance pathway unit (other than the ETFGE pathway) with the core unit.

3 Target audience

This learning programme is for individuals wishing to pursue a career as a domestic natural gas installation and maintenance engineer and desire the necessary skills, knowledge and understanding for installing, commissioning and maintaining gas installations depending on the chosen criteria pathway. It is specifically suitable for individuals who have related qualifications/skills from an engineering/trade sector environment and might be looking for a change in career.

4 Duration

Depending on the pathway the learner wishes to adopt, the durations are as follows:

Core pathway: this consists of 8 weeks minimum of approved provider training and evaluation along with a minimum of 12 weeks of real work environment experience, mentoring and assessment with a gas safe registered engineer/business. There is an electrical knowledge and understanding element built into this pathway namely modules 1 and 3 of the Electrical Testing & Fault Finding for Gas Engineers (ETFGE).

CKR pathway: this consists of 7 hours minimum of approved provider training and evaluation along with a minimum of 20 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

HTR pathway: this consists of 7 hours minimum of approved provider training and evaluation along with a minimum of 20 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

CENWAT pathway: this consists of 7 days (35 hours) minimum of approved provider training and evaluation along with a minimum of 30 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

DAH pathway: this consists of 7 hours minimum of approved provider training and evaluation along with a minimum of 20 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

LAU pathway: this consists of 7 hours minimum of approved provider training and evaluation along with a minimum of 20 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

LEI pathway: this consists of 7 hours minimum of approved provider training and evaluation along with a minimum of 20 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

ETFGE pathway: this consists of 7 hours minimum of approved provider training and assessment for the two core modules, 14 hours minimum of approved provider training and assessment for the two optional modules and a minimum of 20 days of real work environment experience, mentoring and assessment with a gas safe registered engineer/business.

Learning units for providers

The training provider environment total learning hours (TLH) assigned to each unit is detailed in the following table (table 1).

Table 1.

Units and unit titles	TLH Pathway Core
Unit 01: Safety, legislation and standards	28
Unit 02: Gas emergency actions and procedures	14
Unit 03: Products and characteristics of combustion	28
Unit 04: Ventilation for domestic gas burning appliances	21
Unit 05: Installation of domestic pipework and fittings	35
Unit 06: Tightness testing and purging	21
Unit 07: Checking and/or setting meter regulators	14
Unit 08: Unsafe situations, emergency notices and warning labels	21
Unit 09: Operation and positioning of emergency isolation controls and valves	7
Unit 10: Checking and setting appliance burner pressures and gas rates	14
Unit 11: Operation and checking of appliance gas safety devices and controls	21
Unit 12: Chimney standards	14
Unit 13: Chimney installation, inspection and testing	21
Unit 14: Re-establish existing gas supply and relight appliances	14
Unit 21: Electrical testing and fault finding for gas engineers (ETFGE pathway modules 1 and 3)	7
Total:	**280**

Certificate of training

A certificate of training will be issued if a candidate can meet the requirements laid down within the training specification document.

NB. For a full and comprehensive specification relevant to the NICEIC Certification domestic EGC, approved to IGEM/IG/1 please see a copy of the "NICEIC elementary gas certificate for domestic (I&M) engineers training programme specification".