



# GNO Gas Network Operations City & Guilds 6029

The Gas Network Operations National Vocational Qualification-GNO-NVQ covers the construction, maintenance and emergency provisions for gas distribution networks. The network transports highly volatile natural gas in a range of pipe sizes and pressures. The requirement for high standards of safety and competence is self-evident and is subject to very close scrutiny by the Health and Safety Executive.

The City & Guilds Gas Network Operative (GNO) qualifications are, through employer consultation, purpose designed qualifications that enable employees working on the gas distribution networks to demonstrate on-going competence through naturally occurring evidence.

Depending on the level, the qualifications assess learners on:

- Digging holes by hand or using mechanical digging equipment
- Using maps and plans to trace where you need to dig
- Laying and repairing pipes and mains systems
- Connecting homes and businesses to the gas network
- Installing and maintaining gas pressure control equipment
- Responding to emergency gas leaks
- Filling in holes and repairing pavements and gardens when your work is done

The structures of the qualifications are as follows:

**Level 1** – operatives and assistants

**Level 2** – team leaders in either main laying or service laying, depending on route

**Level 3** – craft persons/technicians

# City & Guilds 6029 GNO Level 1

## 6029-01 Level 1 Gas Network Operations (QCA No: 100/2042/1)

To achieve the full NVQ

### Mandatory Units

**Unit 001** Assist in locating and avoiding supply apparatus and sub-structures

**Unit 002** Working under supervision, excavate holes and trenches in ground and pavement structures

**Unit 003** Assist in preparing for re-instatement of excavation and pavement surfaces

**Unit 004** Working under supervision, contribute to an efficient and effective work environment

**Unit 005** Working under supervision, contribute to health, safety and environment in the workplace

**Unit 006** Working under supervision, operate powered tools and equipment for routine and predictable requirements during gas network operations

**Unit 007** Working under supervision, join materials by manually controlled thermal processes

**Unit 008** Working under supervision, assemble components to meet specifications

### Optional Units

**Unit 009** Assist in preparing resources and segregating the area for highways works

**Unit 010** Assist in preparing resources and segregating the area for site works

To gain the certificate in Level 1 NVQ in Gas Network Operations the candidate must complete Assessments for all mandatory plus one from the optional units.



# City & Guilds 6029 GNO Level 2 (Mainlaying)

## 6029-02 Level 2 Gas Network Operations (Mainlaying) (QCA No: 100/2044/5)

To achieve the full NVQ

### **Mandatory Units** (all units - Unit 011 to Unit 019)

**Unit 011** Locate and avoid supply apparatus and sub-structures during gas network operations

**Unit 012** Excavate holes and trenches in ground and pavement structures to access the gas network

**Unit 013** Re-instate excavation and pavement surfaces after gas network operations

**Unit 014** Contribute to an efficient and effective work environment during gas network operations

**Unit 015** Contribute to health, safety and environment in the workplace during gas network operations

**Unit 016** Operate powered tools and equipment during gas network operations  
**Unit 017** Install engineering products or assets

**Unit 018** Replace assembly or sub assembly components

**Unit 019** Conduct specified testing of engineering products or assets (Mainlaying)

### **Optional Groups**

#### ***Section A units (either Unit 020 OR Unit 021)***

**Unit 020** Prepare resources and segregate the area for highways works during gas network operations

**Unit 021** Prepare resources and segregate the area for site works during gas network operations

#### ***Section B units (either Unit 021 OR Unit 022)***

**Unit 022** Join materials by manually controlled thermal processes

**Unit 023** Join materials by machine controlled thermal processes

#### ***Section C units (TWO from Unit 024 to 028)***

**Unit 024** Control allocated resources to achieve requirements

**Unit 025** Prepare work areas and materials for engineering activities

**Unit 026** Restore components to operational condition by repair

**Unit 027** Contribute to the organisation of work activities

**Unit 028** Contribute to effective working relationships

To gain the certificate in Level 2 NVQ in Gas Network Operations (Mainlaying) the candidate must complete assessments for:

All mandatory units: One from Section A optional units , One from Section B optional units

Two from Section C optional units

# City & Guilds 6029 GNO Level 2 (Service laying)

## 6029-03 Level 2 Gas Network Operations (Service laying) (QCA No: 100/2043/3)

To achieve the full NVQ

### **Mandatory Units** (all Units-Units 029-037)

**Unit 029** Locate and avoid supply apparatus and sub-structures during gas network operations

**Unit 030** Excavate holes and trenches in ground and pavement structures to access the gas network

**Unit 031** Re-instate excavation and pavement surfaces after gas network operations

**Unit 032** Contribute to an efficient and effective work environment during gas network operations

**Unit 033** Contribute to health, safety and environment in the workplace during gas network operations

**Unit 034** Operate powered tools and equipment during gas network operations

**Unit 035** Install engineering products or assets

**Unit 036** Replace assembly or sub assembly components

**Unit 037** Conduct specified testing of engineering products or assets

### **Optional Groups**

#### **Section A units** (either Unit 038 to 039)

**Unit 038** Prepare resources and segregate the area for highways works during gas network operations

**Unit 039** Prepare resources and segregate the area for site works during gas network operations

#### **Section B units** (either Unit 040 or 041)

**Unit 040** Join materials by manually controlled thermal processes

**Unit 041** Join materials by machine controlled thermal processes

**Section C units** (two of 042 to 046)

**Unit 042** Control allocated resources to achieve requirements

**Unit 043** Prepare work areas and materials for engineering activities

**Unit 044** Restore components to operational condition by repair

**Unit 045** Contribute to the organisation of work activities

**Unit 046** Contribute to effective working relationships

To gain the certificate in Level 2 NVQ in Gas Network Operations (Servicelaying) the candidate must complete assessments for:

All mandatory units

One from Section A optional units

One from Section B optional units

Two from Section C optional units