NATIONALLY ACCREDITED CERTIFICATION SCHEME FOR INDIVIDUAL GAS FITTING OPERATIVES

GUIDANCE TO ACS GAS SAFETY ASSESSMENT FRAMEWORK

VERSION 9
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NB. For more details of the assessment criteria please refer to the Energy & Utility Skills Website
**Introduction**

This Version 8 of ‘GUIDANCE TO ACS GAS SAFETY ASSESSMENT FRAMEWORK’ replaces all previous 7 Versions & now includes new additional details used within the Nationally Accredited Certification Scheme For Individual Gas Fitting Operatives.

The Flow Charts now include:-

- Details of the Competencies contained in the new ‘Generic Format’ used to construct the Initial Assessment Criteria.
- Details of the Competencies contained in the new ‘Generic Format’ used to construct the Re-Assessment Criteria.
- New Changeover Cores to enable easier transfer among differing ‘Industry Gas Sectors’
- Details of the ACS competencies which align with the S/NVQ 6012 Scheme
- Details of the ‘ACS Aligned S/NVQ’ Re-Certification Scheme for Emergency Service Operatives 6012 - 44

**Legend**

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<td>All assessment details in green boxes containing writing in orange &amp; orange edged are suitable for both NG &amp; LPG</td>
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<td>Yellow</td>
<td>All assessment details in yellow boxes containing writing in black &amp; black edged are changeover assessments only</td>
</tr>
<tr>
<td>Purple</td>
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</tr>
</tbody>
</table>

- **NG Arrow**
- **LPG Arrow**
- **Changeover Arrow**
- **Linkage Arrow**
INITIAL DOMESTIC GAS SAFETY ACS ASSESSMENTS FLOW CHARTS FOR NATURAL GAS & LPG

CORE DOMESTIC GAS SAFETY ASSESSMENT NATURAL GAS CCN 1.

GENERIC FUEL CHANGEOVER CORE NG to LPG - CoNGLPG 1.

FUEL CHANGEOVER CORE LPG to NG - CoLPNG 1.

APPLIANCE ASSESSMENT BANK A.

GENERIC LPG CORE Parts A & B (See detail page 6)
DOMESTIC GAS SAFETY ASSESSMENT LIQUEFIED PETROLEUM GAS CCLP 1.
Both the Generic LPG main core Parts A (CCLP1.) & LPG Changeover Core (CoGLLP1.) needs the additional support of Specific Part B LPG Sectors i.e. Permanent dwellings (PD), Residential Park Homes (RPH), Leisure Accommodation Vehicles (LAV), Boats (B).

The appropriate "Core" NG or LPG or both is a pre-requisite for all of these appliance assessments. Appliance assessments must be selected to cover the areas of work undertaken by operatives.

Operatives already holding a Domestic Core & appliances with one fuel who successfully complete a fuel changeover will be competent to work on those appliances in both fuels with certificates issued accordingly.

GAS COOKERS CKR 1. NG & LPG
GAS FIRES/HEATERS Also requires Assessment CPA1. HTR 1. NG & LPG
CENTRAL HEATING/WATER HEATERS Also requires Assessment CPA1. CENWAT NG & LPG
LAUNDRY APPLIANCES LAU 1. NG & LPG
CENTRAL HEATING CEN1. & WATER HEATING WAT1. Replaced with CENWAT April 2011
DUCTED AIR HEATERS DAH 1. NG & LPG
LEISURE EQUIPMENT LEI 1. NG & LPG
DOMESTIC GAS METERS MET1 & 2. NG & LPG
RANGE - COOKER BOILERS CKHB 1. NG & LPG
WATER BOILERS (Swimming Pool) HWB 1. NG & LPG
FORCED DRAUGHT GAS BURNERS DFDA 1. NG & LPG
COMBUSTION PERFORMANCE ANALYSIS CPA 1. NG & LPG
ATMOSPHERE SAMPLING CO & CO2 CMDDA 1. NG & LPG
NATURAL GAS INITIAL CORE COMPETENCIES

CORE COMPETENCIES CCN 1.
2. Gas Emergency Actions and Procedures.
4. Ventilation.
5. Installation of Pipework and Fittings.
7. Checking and/or Setting Meter Regulators.
11. The Operation and Checking of Appliance Gas Safety Devices and Controls.
12. Chimney Standards.

CORE CHANGEOVER COMPETENCIES LPG to NG CoLPNG 1.
1. Gas Emergency Actions and Procedures - Including characteristics of NG.
2. Ventilation - Related to NG.
3. Installation of Pipework and Fittings - Related to NG.
5. Testing for Tightness.
6. Checking and/or Setting Meter Regulators.
8. Checking and Setting Appliance Burner Pressures and Gas Rates.
9. Chimney Standards - Related to NG.
10. The Installation of Open, Balanced and Fan Assisted Flue Assemblies for Natural Gas Appliances.

GENERIC CORE CHANGEOVER COMPETENCIES NG to LPG CoNGLP 1.
2. Cylinder Location Safety Requirements and Sizing.
5. Installation of pipework and fittings for LPG.
6. Testing for Soundness installation pipework with total internal volume as per BS5482 pt 1 (TM83) & operating pressure up to 37 mbar - applies to (PD), (LAV) and (RPH). And/or Testing for Soundness for LPG Installations in Boats, Yachts/ Vessels (B).

NB. Additional competencies are required for specific LPG Sectors i.e. PD, LAV, RPH, B, EP, EPC. (See LPG Charts)
Example 1
An operative who installs & commissions, disconnects & repairs natural gas pipe-work only & does not work on any appliances

- **CCN 1.** (Core /pre requisite assessment)
  Designed to test the gas safety competence of an operative in core domestic gas work by Practical and knowledge & understanding means.
  Applicable to all domestic gas fittings

Example 2
An operative who installs, exchanges, disconnects services, repairs, attends breakdowns & commissions natural gas central heating boilers

- **CCN 1.** (Core /pre requisite assessment)
  Designed to test the gas safety competence of an operative in core domestic gas work by Practical and knowledge & understanding means.
  Applicable to all domestic gas fittings
- **CENWAT.**
  Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair, attends to breakdown & commission domestic gas central heating boilers & water heaters by Practical and knowledge & understanding means (see flow chart).
- **CPA 1.** (This assessment is a pre-requisite for CENWAT.)
  Designed to test gas safety competence of an operative in the work of carrying out an appliance combustion performance analysis

Example 3
Operatives intending to extend their work range from domestic natural gas appliances to include liquefied petroleum gas appliances (in permanent dwellings)

- **CoNGLP 1. (PD)** (Fuel changeover assessment NG to LPG)
  Designed to test the gas safety competence of an operative intending to extend the work range from domestic NG appliances to include LPG appliances by practical and knowledge & understanding means.
  Note: Before the above assessments can be undertaken, the candidate must hold as a minimum a certificate of competence in Domestic Core Gas Safety CCN 1.
  - Appliances already held in NG are automatically given in LPG in conjunction with CoNGLP 1.
  - If gas work is to be undertaken in a Residential Park Home then CoNGLP 1. (RPH) should be taken.
  Note: All LPG assessments will become invalid if the NG core CCN1. expires

Example 4
An operative intending to extend their work range from domestic liquefied petroleum gas to include natural gas

- **CoLPNG 1.** (Fuel changeover assessment LPG to NG)
  Designed to test the gas safety competence of an operative intending to extend the work range from domestic LPG appliances to include NG appliances by practical and knowledge & understanding means.
  Note: Before the above assessments can be undertaken, the candidate must hold as a minimum a certificate of competence in Domestic Core Gas Safety CCLP 1.
  - Appliances already held in NG are automatically given in LPG in conjunction with CoLPNG 1.
INITIAL DOMESTIC GAS SAFETY ASSESSMENTS LIQUEFIED PETROLEUM GAS FLOW CHART FOR SPECIFIC LPG SECTORS (ASSESSMENT BANK B)

GENERIC LIQUEFIED PETROLEUM GAS CORE CCLP1.
Group 1 Part A (Must be joined from a sector code below)

Common Core Competencies 1-14 For All LPG Sectors:

- (PD) - Permanent Dwellings – Domestic, Commercial & Catering Establishments
- (LAV) – Leisure Accommodation Vehicles
- (RPH) – Residential Park Homes
- (B) - Boats, Yachts & Other Vessels

The appropriate sector code needs to be added after the Core Assessment Ref. No. to cover the sector which the operative is involved with e.g. CCLP1. (PD)

Group 1 Part B Specific Sector Core Competencies 15 – 21 For Permanent Dwellings
CCLP1. (PD)

Group 1 Part B Specific Sector Core Competencies 15 – 19 & 22 For Residential Park Homes
CCLP1. (RPH)

Group 1 Part B Specific Sector Core Competencies 15 – 21 For Leisure Accommodation Vehicles
CCLP1. (LAV)

Group 1 Part B Specific Sector Core Competencies 16 – 19 & 22 For Boats, Yachts & Other Vessels
CCLP1. (B)

LIMITED SCOPE SPECIFIC SECTOR CORE Group 2 Part A (EP) Competencies 1-5 For:-
LPG EXTERNAL PIPEWORK CCLP1. (EP)

LIMITED SCOPE SPECIFIC ASSESSMENT Group 3 Competencies 1-13 For:-
LP External Pipework Connections Domestic & Small Commercial
* CCLP1. (EPC)

LIMITED SCOPE SPECIFIC SECTOR CORE Group 2 Part A (MC) Competencies 1-9 For:-
LPG Cabinet Heaters/Leisure Equipment CCLP1. (MC)

Limited Options for these Groups

Selected Appropriate Domestic Appliance Assessments From Page 4 Assessment BANK A. (E.G. CKR1. – CEN1. – HTR1. – WAT1.) or Appropriate Specific LPG Sector Appliances From Assessment Bank B. (Below)

CLOSED FLUE GAS FIRES HTLRP 2. LPG
CARAVAN SPACE HEATERS HTLRP 3. LPG
CARAVAN REFRIGERATORS REFLP 2. LPG
CARAVAN WATER HEATERS WATLP 2. LPG
BOAT WARM AIR HEATERS WAHLP 1. LPG

GROUP 2 ADDITIONAL ASSESSMENTS REQUIRED FROM:-
VESLP1.
* VESLP2.
* EFJLP1.

No Further Options for these Groups

SINGLE SUPPLY BELOW GROUND PIPEWORK VESLP 1. LPG
MULTIPLE SUPPLIES BELOW GROUND PIPEWORK VESLP 2. LPG
MOBILE CABINET HEATERS CABLP1. LPG
POLYETHYLENE ELECTRO FUSION JOINTING EFJLP 1. NG & LPG

This assessment above is suitable for operatives who install PE pipework for below ground natural gas outlet supplies & may stand alone without any Core Assessment for operatives who DO NOT connect to a live gas supply or commissions the newly installed pipe work.
LIQUEFIED PETROLEUM GAS GENERIC CORE COMPETENCIES

GROUP 1 PART A. GENERIC COMPETENCIES
1. Characteristics of Liquefied petroleum Gas
2. Cylinder Location, Safety Requirements & Sizing
3. LPG Supply Pressures, Operation of & Positioning of ECV’s
4. Gas Emergency Actions & Procedures
5. Identification of Unsafe Situations & Use of Emergency Notices
6. Installation of Pipework & Fittings
7i. Soundness Test LPG installation pipework volume as per BS 5482 pt 1
(TM 83) & Operating Pressures of up to 37 mbar
7ii. Soundness Test LPG installations in Boats, Yachts & other Vessels
8. Liquefied Petroleum Gas Safety Legislation
9. Characteristics Of Combustion of LPG
10. The Operation & Checking of LPG Appliance Safety Devices/Controls
11. Flueing Standards for LPG Appliances
12. Flue Testing
13. The installation of Open, Closed, Balanced & Fan Assisted Flue Assemblies
14. Re- Establishing Existing LPG Supplies & Re-lighting Appliances

GROUP 2 Part A (EP)
1. Vessel Location & Safety Requirements
2. Supply Pressures, Emergency/Flow controls
3. Emergency Actions & Procedures
4. Legislation
5. Installation of External Pipework/Fittings
6. Identification of Unsafe Situations.

GROUP 3 (EPC)
1. Vessel Location & Safety Requirements.
2. LPG Storage Vessels & Connections.
5. LPG Gas Safety Legislation.
6. Installation of Service Pipework, Meters/Fittings Alteration of Existing Installation Pipework (Copper/Steel 6-28mm, MDPE 32mm).
9. Characteristics of LPG.
11. Flueing/Chimney Standards.

GROUP 2. Part A. (MC)
1. Cylinder locations & Safety Requirements
2. Characteristics of combustion - LPG
3. Emergency Actions & Procedures
4. Ventilation Requirements
5. LPG Safety Legislation
6. Installation of Pipework/Fittings
7. Identification of Unsafe Situations.
8. Characteristics of LPG
9. LPG Supply pressures

SPECIFIC CORE COMPETENCIES GROUP 1 PART B
15. LPG Supply Pressures, Operation of & Positioning of Emergency & Flow Control Valves for Bulk Gas Storage Vessels
16. Cylinder Locations & Safety Requirements
17. Installation of LPG Pipework & Fittings
18. Ventilation Requirements for LPG Appliances
19. Flueing Standards for LPG
20. Flue Testing for LPG
21. Flue assemblies for LPG Appliances
22. Re- Establishing Existing LPG Supplies & Re-lighting Appliances

NB. The 8 Competencies within these Specific Core Competencies must use the correct nuances for the Sector being assessed. e.g. (PD), (RPH), (LAV), or (B).
Example 1
An operative who installs, exchanges, disconnects, services, repairs, attends to breakdown & commissions liquefied petroleum gas pipe-work & closed flue gas fires in caravan holiday homes (LAV)

*SEE FLOW CHART SPECIFIC SECTORS PAGE 7

- **CCLP 1. (LAV)** (Core /pre requisite assessment)
  Designed to test the gas safety competence of an operative in core domestic Caravan LPG gas work by practical and knowledge & understanding means.

- **HTRLP 2.** Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair breakdown & commission closed flue LPG gas fires in leisure accommodation vehicles by practical and knowledge & understanding means.

Example 2
An operative who installs, exchanges, disconnects services, repairs, attends to breakdown & commissions liquefied petroleum gas water heaters in touring & motorised caravans (LAV - Leisure Accommodation Vehicles)

*SEE FLOW CHART SPECIFIC SECTORS PAGE 7

- **CCLP 1. (LAV)** (Core /pre requisite assessment)
  Designed to test the gas safety competence of an operative in core domestic Caravan LPG gas work by practical and knowledge & understanding means.

- **WATLP 2.** Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair breakdown & commission LPG water heaters designed for use in touring & motorised caravans by practical and knowledge & understanding means.

Example 3
An operative who installs, exchanges, disconnects services, repairs, attends to breakdown & commissions liquefied petroleum gas cookers & warm air heaters installed on boats (B)

*SEE FLOW CHART SPECIFIC SECTORS PAGE 7

- **CCLP 1. (B)** (Core /pre requisite assessment)
  Designed to test the gas safety competence of an operative in core domestic Boat LPG gas work by practical and knowledge & understanding means

- **CKR 1.** Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair, attends to breakdown & commission domestic LPG gas cooking appliances by practical and knowledge & understanding means

- **WAHL 1.** Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair, attends to breakdown & commission domestic LPG gas boat warm air heating systems by practical and knowledge & understanding means

Example 4
An operative who installs & commissions single supply polyethylene external underground liquefied petroleum gas pipe-work & gas vessel connections (EP)

*SEE FLOW CHART SPECIFIC SECTORS PAGE 7

- **CCLP 1. (EP)** (Core/ pre-requisite) Designed to test the gas safety competence of an operative in core domestic external pipework LPG gas work by practical and knowledge & understanding means.

- **VESLP 1.** Designed to test the gas safety competence of an operative in the work of gas storage vessel connections, controls and safety requirements.
  Sizing external above ground and un-jointed below ground pipe-work of up to 0.02m³ for single LPG gas supplies by Practical and knowledge & understanding means
INITIAL NON DOMESTIC/COMMERCIAL GAS SAFETY ACS ASSESSMENTS FLOW CHART

**GENERIC NON-DOMESTIC ASSESSMENT CORE Part A**
Common Competencies 1-6a

**GENERIC NON-DOMESTIC ASSESSMENT CORE Part B**
Commercial Appliances Common Competencies 6b-11
* N.B. The use of combustion analysis equipment in Competence 8 does not apply to Commercial Laundry

- **COCNPI 1LS.**
  - Pipe Installer Commissioner Assessments Must Include ICPN 1.
  - TPCP 1A. & or TPCP 1.

- **CCLNG 1.**
  - Commercial Laundry Specific Part C. Core Competencies
  - 12 & 13
  - + The assessment CLE 1.

- **COCN 1.**
  - Commercial Heating Specific Part C. Core Competencies
  - 12 - 14
  - + a minimum of 1 assessment from CORT 1. – CIGA 1.
  - CDGA 1. – CGFE 1.
  - CCP 1. – BMP1.

- **CCCN 1.**
  - Commercial Catering Specific Part C. Core Competencies
  - 12 & 13
  - + a minimum of 1 assessment from COMCAT 1.–COMCAT 2.
  - COMCAT 3.–COMCAT 4.
  - COMCAT 5.

- Additional Options
  - BMP 1. - EFJLP 1.
  - * CGFE 1.

- Additional Options
  - ICPN 1. – TPCP 1. /1A.
  - * CGFE 1.

- Additional Options
  - ICPN1.-EFJLP1.-CGLP1.
  - HWB1.–TPCP1. /1A.

- Additional Options
  - ICPN 1. – TPCP 1. /1A.
  - CGLP1.

- **Changeover Core Assessment NG to LPG. CoNGLP1 Specific Part D Core Competency 1-6**

- **Changeover Assessment To Permanent Dwellings (PD)**
  - CoNGLP1. (PD)
  - Specific PART E Cores 7. - 9.

- **Changeover Assessment To Mobile Catering (CMC)**
  - Specific PART F Core Competency 12 - 14
  - N.B Must be linked to CoNGLP1CMC

For detailed descriptions of Non Domestic Commercial ACS Assessments Titles See Overleaf

Limited Scope First Fix Commercial Appliances ICAE 1LS.

Limited Scope First Fix Commercial Pipework ICPN 1LS.

Additional Option EFJLP 1.
## Initial Non Domestic/Commercial Gas Safety ACS Assessments Titles

### Non Domestic/Commercial Pipework Assessments

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<th>Description</th>
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<th>Gas Type</th>
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<tr>
<td>Commercial Pipework in excess of 35mm</td>
<td>ICPN 1</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Strength, Tightness Testing &amp; Purging Pipework up to 16 bars</td>
<td>TPCC 1</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Strength/Tightness Testing &amp; Purging Pipework up to 40mbar &amp; 1m³ volume</td>
<td>TPCC 1A</td>
<td>NG</td>
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<td>Gas Boosters &amp; Associated Controls</td>
<td>BMP 1</td>
<td>NG</td>
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### Non Domestic/Commercial Heating Assessments

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<td>Overhead Radiant &amp; Tube Heaters</td>
<td>CORT 1</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Direct Fired Commercial Appliances</td>
<td>CDGA 1</td>
<td>NG &amp; LPG</td>
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<td>Indirect Fired Commercial Appliances</td>
<td>CIGA 1</td>
<td>NG &amp; LPG</td>
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<td>Gas Fuelled Engines</td>
<td>CGFE 1</td>
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### Non Domestic/Commercial Catering Assessments

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<td>Open/Solid Top Ranges</td>
<td>COMCAT 1</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Water Boilers Pressure/Steam Type</td>
<td>COMCAT 2</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Deep Fat &amp; Pressure Fryers</td>
<td>COMCAT 3</td>
<td>NG &amp; LPG</td>
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<td>Fish &amp; Chip Ranges</td>
<td>COMCAT 4</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Forced Draught Burner Appliances</td>
<td>COMCAT 5</td>
<td>NG &amp; LPG</td>
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<tr>
<td>Small Gas Fired Generators</td>
<td>CGLP 1</td>
<td>LPG</td>
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### Non Domestic/Commercial Laundry Assessments

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<tr>
<td>Commercial Laundry Equipment</td>
<td>CLE 1</td>
<td>NG &amp; LPG</td>
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### Non Domestic/Commercial Miscellaneous Assessments

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<td>Commissioning Commercial Plant &amp; Equipment</td>
<td>CCP 1</td>
<td>NG &amp; LPG</td>
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### Commercial Catering Assessment Content Table

#### COMCAT 1. Appliances Covered
- Open/Solid Top Range Boiling Bums
- Stockpot stoves
- Hotplates, Warming Ovens
- Bain Marie Hot Cupboards
- Combination Ovens
- Forced & Natural Convection Direct & Semi-Indirect Ovens
- Boiling Pans Direct/Indirect
- Bulk Liquid & Jacketed Units
- Expansion Type Water Boilers
- Gas Fired Dishwashers
- Gas Heated Raising Grats
- Ancillary Equipment

#### COMCAT 2. Appliances Covered
- Pressure Type Water Boiler (Stills or equivalent)
- Pressure Steamers
- Pressure Steam Ovens
- Ancillary Equipment

#### COMCAT 3. Appliances Covered
- Deep Fat & Pressure Fryers
- Bratt Pans, Griddles, Grills - Salamanders, Simulated Charcoal, Over/Under fired
- Ancillary Equipment

#### COMCAT 4. Appliances Covered
- Fish & Chip Ranges
- These appliances are normally assembled on site to meet shop front requirements.

#### COMCAT 5. Appliances Covered
- Forced Draught Burners
- Appliances covered by assessments COMCAT 1-3 fitted with forced draught burners need this assessment

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NB. CMCALP1, 2, 3 are no longer available, the appropriate COMCAT assessment indicated above should be taken.

*Appliances marked bold with an asterisk at the top of each Table are the appliances used for assessment, providing evidence of competence for other appliances listed below in each table.
## NON DOMESTIC/COMMERCIAL INITIAL ACS GAS GENERIC CORE COMPETENCIES

### GENERIC NON-DOMESTIC ASSESSMENT CORE Part A.
**Common Competencies 1-6a**

1. **Gas Safety Legislation.**
2. **Gas Emergency Actions and Procedures.**
3. **Installation & Jointing of Pipework and Fittings**
4. **Identification of Unsafe Situations and the Use of Emergency Notices for Pipework.**
5. **The Operation of and Positioning of Emergency Isolation Controls and Valves.**
6. **Tightness testing & purging of small natural gas installations**

### GENERIC NON-DOMESTIC ASSESSMENT CORE Part B.
**Commercial Appliances Common Competencies 6b-11**

6b. **Tightness Testing of Appliance Connector**
7. **Checking and/or Setting Commercial Supply/Appliance & Meter Regulators**
8. **Characteristics of Combustion for Natural Draught Burners**
9. **The Operation and Checking of Appliance Gas Safety Devices and Controls**
10. **Re-establish Existing Gas Supply and Relight Commercial Appliances**
11. **Identification of Unsafe Situations and the Use of Emergency Notices and Warning Labels**

### GENERIC INITIAL NON-DOMESTIC CORE Part C.
**Commercial Laundry Appliances Competencies 12 - 13. CCLNG1.**
12/13. **Commercial Laundry Ventilation & Flueing (Exhaust Duct) Requirements**

### GENERIC INITIAL NON-DOMESTIC CORE Part C.
**Commercial Heating Appliances Competencies 12 - 14. COCN1.**
12. **Commercial Heating Appliance Flueing Requirements**
13. **Commercial Heating Ventilation Requirements**
14. **Characteristics of Combustion for Forced Draft Burners**

### GENERIC INITIAL NON-DOMESTIC CORE Part C.
**Commercial Catering Appliances Competencies 8a - 12 - 13. CCCN1.**
8a. **Products & Characteristics of Combustion**
12. **Commercial Catering Ventilation & Flueing (Extraction System) Requirements**
13. **Installation of Pipework and Fittings for Commercial Catering Appliances**

### GENERIC INITIAL FUEL changeover CORE Part D.
**Changeover Natural Gas to LPG Competencies 1 - 6 CoNGLP1.**
1. **Characteristics of Liquefied Petroleum Gas**
2. **Cylinder Locations, Safety Requirements/Sizing Single Supply**
4. **Gas Emergency Actions and Procedures.**
5. **Installation of Pipework and Fittings - Related to LPG**
6. **Test for Soundness**

### INITIAL FUEL CHANGEOVER PERMANENT DWELLINGS CORE Part E.
**Changeover Natural Gas to LPG Competencies 7 – 9 CoNGLP1. (PD)**
11. **Cylinder Locations, Safety Requirements**
12. **Installation of pipework & Fittings for LPG**

### GENERIC INITIAL NON-DOMESTIC CORE Part F Commercial Mobile Catering Appliances Competencies 12 – 14. CoNGLP1CMC
These Part C Mobile Catering Competencies must be supported by the Generic Initial Fuel Changeover Core Part D (CoNGLP1.) with Generic Initial Non-Domestic Cores Part A/Part B
12. **Commercial Mobile Catering Flueing Requirements.**
13. **Ventilation Requirements for Liquefied Petroleum Gas Appliances used in Mobile Catering**
14. **Cylinder Locations, Safety Requirements and Sizing**
Example 1
An operative who installs commercial pipe work up to 16 bar pressure, tests & purges & installs, services, repairs, attends to breakdowns & commissions commercial indirect fired natural gas appliances

- **PART A.** - Generic Non-Domestic Assessment Core Common Competencies 1-5
- **PART B.** - Generic Non-Domestic Assessment Core Commercial Appliances Common Competencies 6-11
- **COCN 1. (PART C)** - Specific Core Commercial Heating Common Competencies 12-14, Designed to test the gas safety competence of an operative in core commercial heating
- **TPCP 1.** - Designed to test the gas safety competence of an operative in strength/tightness testing and direct purging of commercial pipe work up to 16 bar pressure.
- **ICPN 1.** - Designed to test the gas safety competence of an operative in installing commercial pipe work above 35mm in diameter.
  (Not PE Electro-Fusion)
- **CIGA 1.** - Designed to test the gas safety competence of an operative in install, commission, service, repair & breakdown of indirect fired commercial appliances.

Example 2
An operative who installs, services, repairs, attends to breakdowns & commissions commercial overhead radiant & tube heaters on natural gas

- **PART A.** - Generic Non-Domestic Assessment Core Common Competencies 1-5
- **PART B.** - Generic Non-Domestic Assessment Core Commercial Appliances Common Competencies 6-11
- **COCN 1. (PART C)** - Specific Core Commercial Heating Common Competencies 12-14, Designed to test the gas safety competence of an operative in core commercial heating
- **ICPN 1.** - Designed to test the gas safety competence of an operative in installing commercial pipe work above 35mm in diameter.
  (Not PE Electro-Fusion)
- **CORT 1.** - Designed to test the gas safety competence of an operative in the work of commission, service, repair and breakdown of commercial overhead luminous radiant plaque and radiant tube heaters.

Example 3
A pipe fitter who installs, tests and purges natural gas commercial pipe-work up to 1m³ volume, working at up to 40mb operating pressure (OP) and not exceeding 150mm/6” diameter

- **COCNPI 1LS. (PART A.)** - Generic Non-Domestic Assessment Core Common Competencies 1-5 (Core/pre-requisite for Pipe Installer/Commissioner)
- **ICPN 1.** - Designed to test the gas safety competence of an operative in installing commercial pipe work above 35mm in diameter.
  (Not PE Electro-Fusion)
- **TPCP 1A.** Designed to test the gas safety competence of an operative in strength/tightness testing and direct purging of commercial pipe-work up to 1m³ volume at up to 40mbar OP.
Example 4
A pipe fitter who only installs natural gas commercial pipe-work up to 150mm/6" diameter that is not connected to a gas supply

- ICPN 1LS. (Stand alone assessment no pre-requisite core assessment needed) Designed to test the gas safety competence of an operative in first fixing of commercial installation pipe-work but does not connect to a live gas supply.

Example 5
An operative who installs, services, repairs, attends to breakdowns & commissions any natural gas catering appliance covered by COMCAT1

- PART A. - Generic Non-Domestic Assessment Core Common Competencies 1-5
- PART B. - Generic Non-Domestic Assessment Core Commercial Appliances Common Competencies 6-11
- CCCN 1. (PART C) - Specific Core Commercial Catering Common Competencies 12-13, (Core /pre requisite assessment) Designed to test the gas safety competence of an operative in core commercial catering.
- COMCAT 1. - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair, breakdown & commission of catering appliances in COMCAT 1 grouping (See Table page 8) by Practical & knowledge & understanding

Example 6
An operative intending to extend the work range from commercial catering natural gas to commercial catering liquefied petroleum gas holding CCCN1. or equivalent with COMCAT assessments.

- CoNGLP 1. (PART D) - Specific Core Fuel changeover NG to LPG competencies 1 - 6. Designed to test the gas safety competence of an operative intending to extend the commercial catering work range from natural gas to include LPG.
- (PD) - (PART E) FOR - Specific Core Fuel changeover NG to LPG for Permanent Dwellings competencies 7 - 9
- (CMC) - (PART F) FOR - Specific Core Fuel changeover NG to LPG for Mobile Catering competencies 12 - 14
  Note: Appliances already held in NG are automatically given in LPG in conjunction with CoNGLP 1. (PD) or CoNGLP CMC

Example 7
An operative who installs, services, repairs, attends to breakdown & commissions any LPG commercial mobile catering appliance from CMCALP 2.

- PART A. - Generic Non-Domestic Assessment Core Common Competencies 1-5
- PART B. - Generic Non-Domestic Assessment Core Commercial Appliances Common Competencies 6-11
- CCCN 1. (PART C) - Specific Core Commercial Catering Common Competencies 12-13, (Core /pre requisite assessment) Designed to test the gas safety competence of an operative in core commercial catering.
- COMCAT 3. - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair, breakdown & commission of catering appliances in COMCAT 3 grouping (See Table page 8) by Practical, knowledge & understanding.
- CoNGLP 1. (PART D) - Specific Core Fuel changeover NG to LPG competencies 1 - 6.
- (CMC) - (PART F) FOR - Specific Core Fuel changeover NG to LPG for Mobile Catering competencies 12 - 14

*SEE FLOW CHART NON DOMESTIC ASSESSMENTS PAGE 10

*SEE FLOW CHART NON DOMESTIC ASSESSMENTS PAGES 10 & 11

*SEE FLOW CHART NON DOMESTIC ASSESSMENTS PAGES 10 & 11
ACS DOMESTIC/NON DOMESTIC/COMMERCIAL INITIAL CHANGEOVER ASSESSMENT CRITERIA

**GENERAL INITIAL FUEL CHANGEOVER CORE** Part D.

Changeover Natural Gas to LPG Competencies 1 - 6  CoNGLP1.
1. Characteristics of Liquefied Petroleum Gas
2. Cylinder Locations, Safety Requirements/Sizing Single Supply
5. Installation of Pipework and Fittings - Related to LPG
6. Test for Soundness

**INITIAL FUEL CHANGEOVER PERMANENT DWELLINGS CORE** Part E.

Changeover Natural Gas to LPG Competencies 7 - 9  CoNGLP1. (PD)
8. Cylinder Locations, Safety Requirements
9. Installation of pipework & Fittings for LPG

**INITIAL CHANGEOVER CORE**  CoCDN1.

Changeover Any Commercial Natural Gas to Domestic Competencies 1 - 14
2. Ventilation.
3. Installation of Pipework and Fittings.
5. Checking and/or Setting Meter Regulators.
7. Checking and Setting Appliance Burner Pressures and Gas Rates.
8. Flueing Standards
10. Flue Testing

**GENERAL INITIAL FUEL CHANGEOVER CORE**

Changeover LPG to Natural Gas Competencies 1 - 10  CoPNG1.
1. Gas Emergency Actions and Procedures - Including characteristics of NG.
2. Ventilation - Related to NG.
3. Installation of Pipework and Fittings - Related to NG.
5. Testing for Tightness.
6. Checking and/or Setting Meter Regulators.
8. Checking and Setting Appliance Burner Pressures and Gas Rates.
9. The Flueing Standards - Related to NG.
10. Installation of Open, Balanced and Fan Assisted Flue Assemblies for Natural Gas Appliances.

**SPECIFIC INITIAL CHANGEOVER CORE**

Changeover from Domestic NG to Common Commercial Competencies 1 - 6
- The Operation/Positioning of Emergency Controls/Valves in Commercial Premises
- Checking and Setting Commercial Equipment/Appliance Burner Pressures
- Tightness Testing of Appliance Pipework Connections (Volume up to 0.15/0.12m³)
- Identification of Unsafe Situations and the Use of Emergency notices for Pipework
- The Operation & Checking of Commercial Appliance Gas Safety Devices & Controls
- Re-establish Existing Gas Supply and Relight Commercial Appliances

**COMMERCIAL HEATING CHANGEOVER Core**  CoDCO1.

8. Commercial Heating Ventilation Requirements
9. Commercial Heating Appliance Flueing Requirements

**COMMERCIAL CATERING CHANGEOVER Core**  CoDCl.

**CHANGEOVER DOMESTIC APPLIANCES TO COMMERCIAL CATERING APPLIANCES**

CoCATA1.

CoGLNG1.
Example 1
An operative intending to extend work range from domestic natural gas appliances to include non-domestic/commercial heating appliances across range

- PART A. - Generic Changeover Assessment Domestic Natural Gas to Common Commercial Appliance Core Competencies 1-6
- SPECIFIC PART B. CoDNC01. - Specific Commercial Heating Core Competencies 7-9
- CORT1. - Designed to test the gas safety competence of an operative in the work of commission, service, repair and breakdown of commercial overhead luminous radiant plaque and radiant tube heaters
- CIGA1. - Designed to test the gas safety competence of an operative in install, commission, service, repair & breakdown of indirect fired commercial appliances
- CDGA1. - Designed to test the gas safety competence of an operative in install, commission, service, repair & breakdown of direct fired commercial appliances.

Example 2
Operatives intending to extend their work range from domestic natural gas appliances to include commercial natural gas catering appliances covered by COMCAT 1 & COMCAT 3. Table 1 & 3.

- PART A. - Generic Changeover Assessment Domestic Natural Gas to Common Commercial Appliance Core Competencies 1-6
- SPECIFIC PART B. CoDC 1. - Specific Commercial Catering Core Competencies 7-9
- CoCATA 1. - Designed to test the gas safety competence of an operative intending to extend the work range from domestic NG appliances to include commercial NG catering appliances by Practical and knowledge & understanding means. Applicable to all commercial catering contained in COMCAT's 1 & 3 (See Table page 10)

*Note: Before the above Changeover assessments can be undertaken, the candidate must hold as a minimum a certificate of competence in Domestic Core Gas Safety CCN 1. & appropriate Domestic appliance assessments such as CKR 1. - WAT 1.

Example 3
Operatives intending to extend their work range from domestic natural gas appliances to include commercial natural gas laundry appliances & the installation testing & purging of low pressure commercial pipework.

- PART A. - Generic Changeover Assessment Domestic Natural Gas to Common Commercial Appliance Core Competencies 1-6
- SPECIFIC PART B. CoCCLNG1. - Specific Commercial Laundry Core Competencies 7-8
- CLE1. - Designed to test the gas safety competence of an operative in the work of commission, service, repair and breakdown of commercial laundry appliances.
- ICPN1. - Designed to test the gas safety competence of an operative in installing commercial pipe work above 35mm in diameter. (Not PE Electro-Fusion)
- TPCP1A. Designed to test the gas safety competence of an operative in strength/tightness testing and direct purging of commercial pipe-work up to 1m³ volume at up to 40mbar OP.
INITIAL EMERGENCY SERVICE OPERATIVES & GAS METER INSTALLERS

ACS GENERIC ASSESSMENTS

Generic Initial Assessment Core Competencies 1 - 7

Additional Specific Assessment Core Competencies 8 - 13

- Emergency Service Provider CESP 1.
- Meter Installer CMA 1.
- Domestic Meter MET 2.
- Medium Pressure REGT 1.
- Dom/Com Meter MET 4.
- Testing up to 1m³ TPCP 1A
- Testing up to 16 bar TPCP 1.
- Non/Dom Pipe ICPN 1.
- Medium Pressure REGT 2.
- Diaphragm/RPD CMET 1.
- RPD & Turbine CMET 2.

REGT 2.
New available to support commercial medium pressure installations to the requirements specified in IEE/SM8 (Applicable to CESP1 &/or CMA1 & MET4.)

- Medium Pressure REGT 1.
- Additional Options With CMA 1.
- Dom/Com Meter MET 4.
- Testing up to 1m³ TPCP 1A
- Testing up to 16 bar TPCP 1.
- Non/Dom Pipe ICPN 1.
- Medium Pressure REGT 2.
- Diaphragm/RPD CMET 1.
- RPD & Turbine CMET 2.

- Gas Meter MET 3LS. (Limited Scope)

CMIT 1.
Separate stand alone Limited Scope assessment which includes its own core for Meter Instrumentation Technicians

- Medium Pressure Installations REGT1.

Part A: Generic Competencies 1-7 (must be completed by all candidates)
1. Gas Safety Legislation
2. Gas Emergency Actions and Procedures
3. Installation of Pipework and Fittings for the installation of gas meters
4. Tightness Testing
5. Checking and/or Setting Meter Regulators
6. Identification of Unsafe Situations and the Use of Emergency Notices and Warning Labels
7. The Operation of and Positioning of Emergency Isolation Controls and Valves

Part B: Specific Competencies 8-13 (CMA1 & CESP1 only)
8. Gas Safety Legislation (Additional to Part A.)
9. Characteristics of Combustion
10. Ventilation Requirements for Domestic and Commercial Appliances
11. Flueing Standards
12. Installation of Outlet Pipework and Fittings
13. Re-establish Existing Gas Supply and Re-light Appliances/Plant

Meter Installer CMA 2LS (Limited Scope)
Example 1
An OAMI approved meter installer who installs domestic natural gas meters to both low & medium pressures supplies

- **CMA 1.** - Generic Core designed to test the gas safety competence of an operative in core domestic meter gas work by practical & knowledge & understanding means.
- **MET 2.** - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service & commission domestic gas meters up to U6 in size by practical and knowledge & understanding means.
- **REGT 1.** - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service & commission medium pressure service regulators.

Example 2
An OAMI approved meter installer who installs low pressure non domestic natural gas diaphragm meters up to U40 size, natural gas meters diaphragm meters with by-passes, RPD meters & medium pressure Turbine meters.

- **CMA 1.** - Generic Core designed to test the gas safety competence of an operative in core domestic meter gas work by practical & knowledge & understanding means.
- **MET 4.** - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service & commission domestic/small commercial gas meters up to U40 in size using anacondas by practical and knowledge & understanding means.
- **ICPN 1.** - Designed to test the gas safety competence of an operative in installing commercial pipe work above 35mm in diameter.
- **REGT 2.** - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service & commission medium pressure service regulators.
- **TPCP 1.** - Designed to test the gas safety competence of an operative in strength/tightness testing and direct purging of commercial pipe work up to 16 bar pressure.
- **CMET 1.** - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service & commission non-domestic gas meters both of large diaphragm meters with by-pass & RPD meters by practical and knowledge & understanding means.
- **CMET 2.** - Designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service & commission non-domestic/commercial gas meters both of RPD & Turbine types by practical and knowledge & understanding means.

Note: Holders of assessment **MET4.** Are also competent to meet the requirements of **MET2.**

Example 3
An approved gas emergency service operative responding to public reported escapes

- **CESP 1.** - Generic Core designed to test the gas safety competence of an operative in the work of an emergency service provider

Note: In addition to the above generic core the operative will have to successfully complete additional upstream training & assessment provided by the employer.  (See appendix 2 - ACS Assessments for ESP's)

Example 4
An operative employed by a Gas Meter Asset Manager to install correctors & other instrumentation to Non-Domestic/Commercial Meters

- **CMIT 1.** - Generic Core designed to test the gas safety competence of an instrumentation operative in core non-domestic/commercial meter gas work by practical & knowledge & understanding means.
### NOTES:
- Complex 03 - Meters at Level III up to U40 fitted using anacondas, using IGE UP 1A procedures for testing and purging in domestic premises only
- Complex 04 – Meters at Level III up to U40 fitted using anacondas, using IGE UP 1A procedures for testing and purging in domestic and small commercial gas installations
- Complex 04 - In addition to equivalence of Combustion Performance Analysis will be included in those awards indicated above from 1st March 2008
- NG & LPG OPERATIONS LEVEL I
- EMERGENCY SERVICE METERS
- CENTRAL HTG
- APPLIANCE PATHWAY
- ROUTE LEVEL II
- COMPLEX NUMBER | CORE CCN 1 | COOKERS CKR 1 | FIRES HTR 1 | INST WAT 1 | CENTRAL HEATING CEN 1 | LAUNDRY LAU 1 | LEISURE LEI 1 | WARM AIR DAH 1 | RANGE/CRK CHB 1 | COMPL/ION P/R/P/NC ANALYSIS CPA 1 | MEDIUM PRESSURE REGULATORS REGTL | PIPEWORK CCN 1 | TEST AND PURGE TPC 1A | METERS | ESP
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
6012 LEVEL II | 6012-02/60 | YES | YES | YES | YES | YES | YES | YES | NO | YES | NO | YES | NO | YES UP TO U6 | MET 1 | NO
6012 LEVEL III | 6012-03/70 | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | YES | YES | YES UP TO U40 | MET 4 | NO

#### APPLIANCE PATHWAY

#### ROUTE LEVEL II

| COOKERS | 6012-20 | YES | YES | NO | NO | NO | YES | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| CENTRAL HTG | 6012-21/62 | YES | NO | NO | YES | YES | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| METERS | 6012-22 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO |
| 6012-12 | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO |
| SPACE HEATERS | 6012-24 | YES | NO | YES | NO | NO | NO | YES | NO | NO | YES | NO | YES | NO | NO | NO |
| WARM AIR | 6012-25 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | NO | NO | NO |

#### APPLIANCE PATHWAY

#### ROUTE LEVEL III

| COOKERS | 6012-30 | YES | YES | NO | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| CENTRAL HTG | 6012-31 | YES | NO | NO | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| METERS | 6012-32 | YES | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | YES | NO | NO |
| 6012-13 | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | YES | TO U40 | CMA 1

#### EMERGENCY SERVICE OPERATIONS LEVEL I

| COMPLEX NUMBER | 6012-04/80 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| OPERATIONS LEVEL I | 6012-44/80 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-05 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-55 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-60 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-06 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-66 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |

### NOTES:
- Complex 03 - Meters at Level III up to U40 fitted using anacondas, using IGE UP 1A procedures for testing and purging in domestic premises only
- Complex 04 – Meters at Level III up to U40 fitted using anacondas, using IGE UP 1A procedures for testing and purging in domestic and small commercial gas installations
- Complex 04 - In addition to equivalence of Combustion Performance Analysis will be included in those awards indicated above from 1st March 2008
- NG & LPG OPERATIONS LEVEL I
- EMERGENCY SERVICE METERS
- CENTRAL HTG
- APPLIANCE PATHWAY
- ROUTE LEVEL II
- COMPLEX NUMBER | CORE CCN 1 | COOKERS CKR 1 | FIRES HTR 1 | INST WAT 1 | CENTRAL HEATING CEN 1 | LAUNDRY LAU 1 | LEISURE LEI 1 | WARM AIR DAH 1 | RANGE/CRK CHB 1 | COMPL/ION P/R/P/NC ANALYSIS CPA 1 | MEDIUM PRESSURE REGULATORS REGTL | PIPEWORK CCN 1 | TEST AND PURGE TPC 1A | METERS | ESP
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
6012 LEVEL II | 6012-02/60 | YES | YES | YES | YES | YES | YES | YES | NO | YES | NO | YES | NO | YES UP TO U6 | MET 1 | NO
6012 LEVEL III | 6012-03/70 | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | YES | YES | YES UP TO U40 | MET 4 | NO

#### APPLIANCE PATHWAY

#### ROUTE LEVEL II

| COOKERS | 6012-20 | YES | YES | NO | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| CENTRAL HTG | 6012-21/62 | YES | NO | NO | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| METERS | 6012-22 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO |
| 6012-12 | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO |
| SPACE HEATERS | 6012-24 | YES | NO | YES | NO | NO | NO | YES | NO | NO | YES | NO | YES | NO | NO | NO |
| WARM AIR | 6012-25 | YES | NO | NO | NO | NO | NO | NO | YES | NO | YES | NO | YES | NO | NO | NO |

#### APPLIANCE PATHWAY

#### ROUTE LEVEL III

| COOKERS | 6012-30 | YES | YES | NO | NO | NO | YES | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| CENTRAL HTG | 6012-31 | YES | NO | NO | YES | YES | NO | NO | NO | NO | NO | YES | NO | YES | NO | NO | NO |
| METERS | 6012-32 | YES | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | YES | NO | NO |
| 6012-13 | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | YES | TO U40 | CMA 1

#### EMERGENCY SERVICE OPERATIONS LEVEL I

| COMPLEX NUMBER | 6012-04/80 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| OPERATIONS LEVEL I | 6012-44/80 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-05 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-55 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-60 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-06 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
| 6012-66 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES | YES | YES | YES | YES | UP |
Example 1.
An operative holding an ACS aligned N/SVQ Level II Appliance Pathway Route Certificates 6012-20 & 6012-21 which are less than five years old intends to extend areas of work to space heaters.

- Operatives existing aligned NVQ's are equivalent to ACS Certificates of competence:
  - CCN1, CKR1, LAU1, WAT1, CEN1. (CENWAT from April 2011)
- Operative can undertake ACS Assessment HTR1. & CPA1. or extend NVQ by undertaking additional Level II Appliance Pathway Route 6012-24

Example 2.
An operative holding limited scope ACS certificates CMA2LS. & MET3LS. & currently employed by a gas meter installer intends to become a GAS SAFE REGISTERED sole trader working on the full range domestic Natural Gas appliances.

- Operative’s current ACS certificates only cover the installation of a domestic meter to a sealed meter outlet providing no experience of internal installations & appliance requirements.
- NVQ 6012-02 at Level II or III with on job experience with a GAS SAFE REGISTERED gas installer is the preferred route.

Example 3.
An operative holding an ACS aligned N/SVQ Level II Appliance Pathway Route Certificates 6012-22 or 63 pathway award which is less than five years old intends to install low pressure & medium pressure U16 meters in domestic premises.

- Operatives existing aligned NVQ's are equivalent to ACS Certificates of competence:
  - CCN1, MET1.
- Operative can undertake ACS Assessments REGT1, REGT2, MET4, & TPCP1.

Example 4.
An operative holding an ACS aligned N/SVQ Level III Appliance Pathway Route Certificates 6012-32 or 73 pathway award which is less than five years old intends to undertake emergency service operational work.

- Operatives existing aligned NVQ's are equivalent to ACS Certificates of competence:
  - CCN1, MET1, MET2, MET4, & TPCP1A.
- Operative can undertake ACS Changeover Assessment CoDNESP1.

Example 5.
An operative wishing to commence work in the gas sector for the first time with no experience within gas or any other related sector of industry.

- NVQ 6012-02 at Level II with on job experience with a GAS SAFE REGISTERED gas installer is the preferred route.
RE-ASSESSMENT for DOMESTIC NATURAL GAS

ACS Assessments currently held by operative & now requiring renewal

- CCN1. Domestic Gas Core
- CEN1. Wet Central Heating
- CKR1. Gas Cookers
- HTR1. Gas Space Heaters
- WAT1. Instantaneous Water Ht.

ACS Re-Assessments to renew currently held assessments.

Renewed Re-assessment CORE & 4 Assessments packaged together
  - CCN1.
  - CENWAT.
  - CKR1.
  - HTR1.
  - CPA1.

Operative shows original initial ACS Certificates of Competence to Assessment Centre & applies for re-assessment

Operative seeks extension to scope of work activities

- HWB1. Water Boilers (Swimming pool)

Not previously held

Operative applies for new ACS Competence Certificate

Operative Takes Initial Assessment

- HWB1.

Note: Re-Assessment only available for those operatives who renew their expired ACS assessments within 12 months of initial assessments expiring.
DOMESTIC LIQUEFIED PETROLEUM GAS RE-ASSESSMENT CRITERIA

GROUP 1. Generic LPG Reassessment Core Part A. Competencies 1–10

CCLP1.
Permanent Dwellings (PD)
Leisure Accommodation Vehicles (LAV)
Residential Park Homes (RPH)
Boats Yachts/Other Vessels (B)

Part B.
Specific Sector Competencies 11–14 & 16
Permanent Dwellings (PD)
Black Print

Selected Appropriate Domestic Appliance Re-Assessments from LPG Banks A/B

Options from VESLP1. - VESLP2. - EFJLP1. - TPCP1.

Options – Changeover Core LPG to NG CoLPNG1.
Those Holding RPH, LAV, and B. will require additional competencies to those holding (PD)

1. LPG Supply Pressures
2. Identification of Unsafe Situations & Use of Emergency Notices
3. Installation of Pipework & Fittings
4(i). Soundness Test LPG Installation pipework volume as per BS5482 Pt. 1
4(ii). Soundness Test LPG Installations in Boats, Yachts & other Vessels
5. Characteristics Of Combustion of LPG
6. The Operation & Checking of LPG Appliance Safety Devices/Controls
7. Flueing Standards for LPG Appliances
8. Flue Testing
9. The Installation of Open, Closed, Balanced & Fan Assisted Flue Assemblies
10. Re-establishing Existing LPG Supply & Re-lighting Appliances

SPECIFIC CORE COMPETENCIES

GROUP 1 PART B

11. LPG Supply Pressures (gas storage vessels), Operation/Positioning of EGV
12. Installation of LPG Pipework & Fittings
13. Ventilation Requirements for LPG Appliances
14. Flueing Standards for LPG
15. Flue Testing for LPG Appliances
16. Flue assemblies for LPG Appliances

NB. The 6 Competencies within these Specific Sectors must use the correct nuances for the Sector being assessed (where appropriate) e.g. (PD), (RPH), (LAV), or (B)

GROUP 2. Limited Scope Specific Sector LPG Reassessment Core Part A. Competencies 1–5

Includes Vessels (Single supply)
CCLP1. (MC) & CABLP1.

GROUP 2. LPG Reassessment from:-
VESLP2.* - EFJLP1.
* Operatives requiring to test & commission pipework installed under VESLP2. will also require Assessment TPCP1.

GROUP 2 Part A (EP)
1. Vessel locations & Safety Requirements
2. Supply Pressures, Emergency/Flow controls
3. Test for Soundness as per BS 5482 Pt. 1
4. Installation of External Pipework/Fittings
5. Identification of Unsafe Situations

GROUP 2 Part A (MC)
1. Characteristics of combustion – LPG
2. Ventilation Requirements
3. Installation of Pipework/Fittings
4. Identification of Unsafe Situations
5. Inspect & commission mobile cabinet heater

GROUP 2. Limited Scope Specific Sector LPG Reassessment Core Part A. Competencies 1-5

Includes Cabinet Heaters
CCLP1. (MC) & CABLP1.

GROUP 2. LPG Reassessment from:-
LEI1.
Leisure equipment (Single bottle supply)

GROUP 2 Part A (MC)
1. Characteristics of combustion – LPG
2. Ventilation Requirements
3. Installation of Pipework/Fittings
4. Identification of Unsafe Situations
5. Inspect & commission mobile cabinet heater

No Further Options

GROUP 1. BANKS A & B

17. BANK A, Inspection, Testing, Service, Repair, and Commission ‘Generic’ Domestic Gas Appliances - CRK 1, HTR 1, WAT 1, LAU 1, CEN 1, DAH 1, LEI 1, MET 1, CKHB 1, HWP 1 or DFDA 1
18. BANK B, Inspection, Testing, Service, Repair, and Commission ‘Sector’ Domestic Gas Appliances - CABLP 1, LEILP 1, HTRLP 2, HTRLP 3, REFLP 2, WATLP 2 and/or WAHL 1.
Example 1.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.
- Operative undertakes ACS Re-Assessment package CCN1. core with 4 assessments CENWAT. – HTR1. – CKR1. – CPA1.

Example 2.
An operative holding expiring Domestic Natural gas ACS certificates CCN1. – CEN1. – HTR1. – CKR1. – WAT1. & wishes to extend the scope to cover Liquefied Petroleum Gas for Permanent Dwellings & Leisure Accommodation Vehicles with additional appliances.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.
- Operative undertakes ACS Re-Assessment package CCN1. core with 4 assessments CENWAT. – HTR1. – CKR1. – CPA1.
- CoNGLP 1. (PD) (LAV) Initial (Fuel changeover assessments NG to LPG)
  Designed to test the gas safety competence of an operative intending to extend the work range from domestic NG appliances to include LPG appliances by practical and knowledge & understanding means in both permanent dwellings & leisure accommodation vehicles.
- HTRLP2. Initial ACS Assessment designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair breakdown & commission closed flue LPG gas fires in leisure accommodation vehicles by practical and knowledge & understanding
- REFLP 2. Initial ACS Assessment designed to test the gas safety competence of an operative in the work of install, exchange, disconnect, service, repair breakdown & commission LPG gas refrigerators in leisure accommodation vehicles by practical and knowledge & understanding

Example 3.
An operative previously holding Domestic Natural gas ACS certificates CCN1. – CEN1. which have been expired for over 6 months

- CCN1. & CEN1. No longer available to operative as a re-assessment - Operative has to renew by taking CCN1. CPA1. & CENWAT. as an Initial Assessment

Example 4.
An operative previously holding Domestic Natural gas ACS certificates CCN1. – CEN1. & CKR1. which have just expired & NG to LPG changeover CoNGLP1. (PD) with WAT1. & LAU1. which are still valid for a further 2½ years

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment
- Operative undertakes ACS Re-Assessment package CCN1. core with 3 assessments CENWAT1. CPA1 & CKR1.
- CoNGLP1. (PD) along with LAU1. are refreshed for a further 2½ years until their due expiry date

*SEE FLOW CHART DOMESTIC RE-ASSESSMENT PAGE 23 & INITIAL ASSESSMENTS PAGE 7
NON DOMESTIC/COMMERCIAL ACS RE-ASSESSMENT CRITERIA

GROUP 1
Non-Domestic Re-Assessment Core
Pipe Installer/Commissioner COCNPI 1LS.
Competencies 1 - 3
Part A.

Re-Assessments to complete COCNPI 1LS.
Must Include
ICPN 1, TPCP 1A, &/or TPCP 1.

Options EFJLP 1, BMP 1.

Re-Assessment Core Competencies

1. Identification of Unsafe Situations, Use of Emergency Notices for Pipework
2. The Operation & Positioning of Emergency Isolation Controls & Valves
3. Gas Emergency Actions & Procedures

4. Installation of Pipework & Fittings for Appliance Connections
5. Tightness Testing of Appliance Pipework Connections
6. The Operation & Positioning of Emergency Isolation Controls & Valves
7. The Operation & Checking of Appliance Gas Safety Devices & Controls
8. Checking & Setting Commercial Supply/Appliance & Meter Regulators
9. Identification of Unsafe Appliance Situations

10. Commercial Laundry Fueling requirements
11. Commercial Laundry Ventilation requirements
12. Appropriate Appliances

10. Commercial Heating Fueling requirements
11. Commercial Heating Ventilation requirements
12. Characteristics of Combustion with Forced Draught Burners
13. Appropriate Appliances

10. Commercial Catering Fueling requirements
11. Commercial Catering Ventilation requirements
12. Appropriate Appliances

GROUP 2
Limited Scope Non-Domestic Re-Assessments
There is no Core-required for the 2 re-assessments listed below which are designed for operatives who do not connect to a live gas supply

ICPN 1LS.
First fix Commercial Pipework

ICAE 1LS.
First fix Commercial Appliances

Option EFJLP 1.

GROUP 3
Generic Non-Domestic Re-Assessment Core
Commercial Appliance Installers Competencies 4 - 9
Part A.

CCLNG 1.
Specific Part B Re-assessment
Commercial Laundry Core Competencies
10 - 12
Re-assessment selected from:-
CORT 1.
CIGA 1.
CDGA 1.
CGFE 1.
Separate CCP 1.

COCN 1.
Specific Part B Re-assessment
Commercial Heating Core Competencies
10 - 12
Re-assessment selected from:-
COMCAT 1.
COMCAT 2.
COMCAT 3.
COMCAT 4.
COMCAT 5.

Options ICPN 1, TPCP 1A, TPCP 1.
EFJLP 1, BMP 1.

Re-assessment Changeover Core NG/LPG CoNGPL1. Generic Competencies 1-3

2. Installation of Pipework & Fittings for LPG (Range of pipe sizes 6mm to 28mm).
3. Testing for Soundness LPG Installation pipework with total volume as per BS 2482 pt. 1 operating pressure up to 37mbar.

Additional competencies to support fuel changeover for 'Permanent dwellings' (PD)

4. LPG Medium Pressure Supplies, Isolation, Flow Controls & Valves for Gas Storage Vessels
5. Installation of Pipework and Fittings for Liquefied Petroleum Gas (Range of Pipe Sizes: 6mm to 28mm)

N.B. Re-assessment for Assessments TPCP 1 & TPCP 1A will be fully assessed to the same new criteria as initial assessment as both normative documents supporting these assessments were significantly re-written & re-introduced in 2004/5, resulting in new & additional criteria not previously being assessed.
Example 1.
An operative holding expiring Non Domestic/Commercial Heating Natural gas ACS certificates COCN1. – CIGA1. – CORT1. – CDGA1.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.
- Operative undertakes ACS Re-Assessment package Group 3 Part A. & Part B. Commercial Heating Core COCN1.
- Generic & Specific Cores with 3 appliances:
  - CIGA1. – CORT1. – CDGA1.

Example 2.
An operative holding expiring Non Domestic/Commercial Catering Natural gas ACS certificates CCCN1. – COMCAT1. – COMCAT2. – COMCAT3.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.
- Generic & Specific Cores with 3 appliances:
  - COMCAT1. – COMCAT2. – COMCAT3.

Example 3.
An operative holding expiring Non Domestic/Commercial Laundry & Catering Natural gas ACS certificates CCLNG1. – CLE1. – CCCN1. - COMCAT1. COMCAT2. COMCAT3.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.
- Operative undertakes ACS Re-Assessment package Group 3 Part A. & Part B. Commercial Laundry Core CCLNG1.
- Part B Commercial Catering Core CCCN1.
- Generic & Specific Cores with 1 laundry appliance CLE1. & 3 catering appliances COMCAT1. – COMCAT2. – COMCAT3.

Example 4.
An operative holding expiring Non Domestic Natural gas Pipe Installer/Commissioner ACS certificates COCNPI1LS. – ICPN1. – TPCP1. & wishes to extend the scope to cover Electro-Fusion of Polyethylene Pipe

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.
- Operative undertakes ACS Re-Assessment package Group 1 Part A1. Specific Core with 2 other re-assessments:
  - ICPN1. - TPCP1.
  - EFJLP1. Initial ACS Assessment designed to test the gas safety competence of an operative in the work of installing & jointing by electro-fusion polyethylene pipework.

Example 5.
An operative holding expiring Limited Scope Non Domestic Pipework ACS certificate ICPN1LS.

- Operative presents previous ACS Certificate to the Assessment Centre to enter for Re-assessment.
- Operative undertakes ACS Re-Assessment from Group 2 - ICPN1LS.
EMERGENCY SERVICE OPERATIVES & GAS METER INSTALLERS ACS RE-ASSESSMENTS

Re-Assessment Generic Core Competencies 1 – 5 Part A.

Additional Re-Assessment Specific Core Competencies 6 – 10 Part B.

Emergency Service Provider CESP 1.

Gas Meter Installer CMA 1.

Domestic Meter MET 2.

Medium Pressure REGT 1. Same as Initial

Dom/Com Meter MET 4.

Testing up/to 1m³ TPCP1A. Same as Initial

Testing up/to 16 bar TPCP1. Same as Initial

Non/Dom Pipe ICPN 1.

Diaphragm/RPD CMET 1.

RPD & Turbine CMET 2.

REGT 2.

New available to support commercial medium pressure installations to the requirements specified in ISE/GM8 (Applicable to CESP 1 & or CMA 1 & MET 4.)

Meter Installer Re-Assessment CMA 2LS (Limited Scope)

Gas Meter Re-Assessment MET 3LS. (Limited Scope)

CMIT 1. Separate stand alone Limited Scope Re-assessment which includes its own core for Meter Instrumentation Technicians

Medium Pressure Installations REGT 1. Same as Initial

Part A: Generic Competencies 1-5 (must be completed by all candidates)
1. Installation of Pipework and Fittings for the installation of gas meters
2. Tightness Testing
3. Checking and/or Setting Meter Regulators
4. Identification of Unsafe Situations and the Use of Emergency Notices and Warning Labels
5. The Operation of and Positioning of Emergency Isolation Controls and Valves

Part B: Specific Competencies 6-10 (CMA1. & CESP1. only)
6. Characteristics of Combustion
7. Ventilation Requirements for Domestic and Commercial Appliances
8. Flueing Standards
9. Installation of Outlet Pipework and Fittings
10. Re-establish Existing Gas Supply and Re-light Appliances/Plant
ACS ALIGNED, CITY AND GUILDS 6012 - 04 RE-CERTIFICATION SCHEME TO 6012 - 44, GAS EMERGENCY SERVICE OPERATIONS

ACS EQUIVALENT ASSESSMENTS - DOMESTIC NATURAL GAS

<table>
<thead>
<tr>
<th>RE-CERTIFICATION</th>
<th>COMPLEX NUMBER</th>
<th>CORE</th>
<th>COOKERS</th>
<th>FIRES</th>
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<th>CENTRAL</th>
<th>LAUNDRY</th>
<th>LEISURE</th>
<th>WARM</th>
<th>RANGE/CKR</th>
<th>MEDIUM</th>
<th>PIPEW’RK</th>
<th>TEST AND</th>
<th>METERS</th>
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<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>Under development</td>
<td>YES</td>
<td>YES</td>
<td>UP TO U40</td>
<td>YES</td>
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</tbody>
</table>

NB. 6012 -04/80 is a pre-requisite qualification for access to 6012 - 44

Example 1.
An operative holding expiring Domestic Natural gas Meter Installers ACS certificates CMA1. – MET2. – REGT1.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.

Example 2.
An operative holding expiring Emergency Service Providers ACS certificate CESP1.

- Operative presents previous ACS Certificates to the Assessment Centre to enter for Re-assessment.

Example 3.
An operative holding expiring Emergency Service Providers NVQ 6012 - 04 certificate

- Operative presents previous NVQ 6012-04 Certificate to the NVQ Centre to enter for Re-Certification.
- Operative undertakes NVQ Re-Assessment package 6012 - 44

Example 4.
An operative holding expiring Emergency Service Providers NVQ 6012 - 04 certificate buts wants to renew certification through the ACS route

- Operative presents previous NVQ 6012-04 Certificate to the ACS Assessment Centre to enter for Re-assessment.
VARIATIONS TO STANDARD ACS ASSESSMENT COMBINATIONS

A number of ACS Assessment Criteria were originally placed in the ‘Gas Sector Criteria’ that was most appropriate at the time of publication. Since then it has become apparent that some of these assessment criteria can be utilised effectively across a wider range of gas sectors without the need of the originally identified pre-requisites.

Listed below are some of the more common variations that an operative can make use of to ensure that they are holding the necessary certificate of competence by following an acceptable alternative route.

**POLYETHYLENE ELECTRO FUSION JOINTING**
- EFJLP 1.
- NG & LPG

This assessment is valid with the following core gas safety assessments:
- In conjunction with both Domestic NG &/or LPG Cores (CCN 1.–CCLP 1.–CoNGLP 1.) Normal Route
- In conjunction with both any other core.
- On its own for limited scope operatives not connecting to a live gas supply (No pre-requisite required)

**TESTING & PURGING PIPEWORK**
- TPCP 1A.
- NG

(Not exceeding 1m³ volume)

This assessment is valid with the following core gas safety assessments:
- In conjunction with the Commercial NG Core (COCN 1.) Normal Route
- In conjunction with any other NG Core

**TESTING & PURGING PIPEWORK**
- TPCP 1.
- NG & LPG

(Exceeding 1m³ volume)

This assessment is valid with the following core gas safety assessments:
- In conjunction with both Commercial NG &/or LPG Cores (COCN 1.–CoDNCO 1.–CoNGLP 1.) Normal Route
- In conjunction with any other Core

**DOMESTIC APPLIANCES - NG & LPG**
- (Cookers, Hot Water/Central Heating Boilers, Water Heaters)

This assessment is valid with the following core gas safety assessments:
- In conjunction with both Domestic NG &/or LPG Cores (CCN 1.–CCLP 1.–CoNGLP 1.) Normal Route
- Limited scope (occasional involvement from appliance isolation valve to appliance in commercial environment) in conjunction with Commercial / Commercial Catering (COCN 1. - CoDNCO 1. – CoNGLP 1. – CCCN 1. - CoDC1.)
**WHAT’S THE ANSWER?**

This page is intended to give some guidance to anyone involved in offering advice to operatives intending to undertake ACS assessments. The following examples of typical questions/response should be used in conjunction with the attached flowcharts.

<table>
<thead>
<tr>
<th>Candidates Questions</th>
<th>Response</th>
<th>Candidates Questions</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>I hold ACoP 1-14 qualifications that are out of date. What ACS assessments do I need to take?</td>
<td>What areas of gas work do you undertake? Use page 4 flow chart to advise candidate.</td>
<td>I hold CCN1 &amp; CKR1 and wish to take a &quot;changeover&quot; assessment to extend my scope of work to include commercial catering appliances</td>
<td>Refer to page 15 flowchart to advise candidate which assessment to take. Advise the candidate that the commercial catering appliance categories will cease to be valid when the Core CCN1 assessment expires.</td>
</tr>
<tr>
<td>I carry out work on NG domestic cookers and hold CCN1 &amp; CKR 1. However; I need to be able to carry out this type of work on LPG. What assessment do I need to take?</td>
<td>Use page 4 flow chart to advise the candidate to undertake suitable changeover assessment.</td>
<td></td>
<td>Enquire as to which (if any) ACS assessments the operative holds &amp; refer to page 10 flowchart.</td>
</tr>
<tr>
<td>I work on Touring Caravans, Residential Park Homes and Boats. What ACS assessments do I need to take?</td>
<td>What gas appliances do you carry out gas work on? Use page 7 flow chart to advise candidate, which core &amp; sector assessment to take. Use page 4 &amp; 7 flow charts to advise candidate which appliance assessments to take.</td>
<td>Which ACS assessments do I need to take to enable me to work on Mobile Catering Equipment?</td>
<td></td>
</tr>
</tbody>
</table>