

NATIONALLY ACCREDITED CERTIFICATION SCHEME FOR INDIVIDUAL GAS FITTING OPERATIVES

GUIDANCE TO ACS GAS SAFETY ASSESSMENT FRAMEWORK

VERSION 14





Introduction

This Version 12 of 'GUIDANCE TO ACS GAS SAFETY ASSESSMENT FRAMEWORK' replaces all previous versions & now includes new additional details used within the Nationally Accredited Certification Scheme For Individual Gas Fitting Operatives.

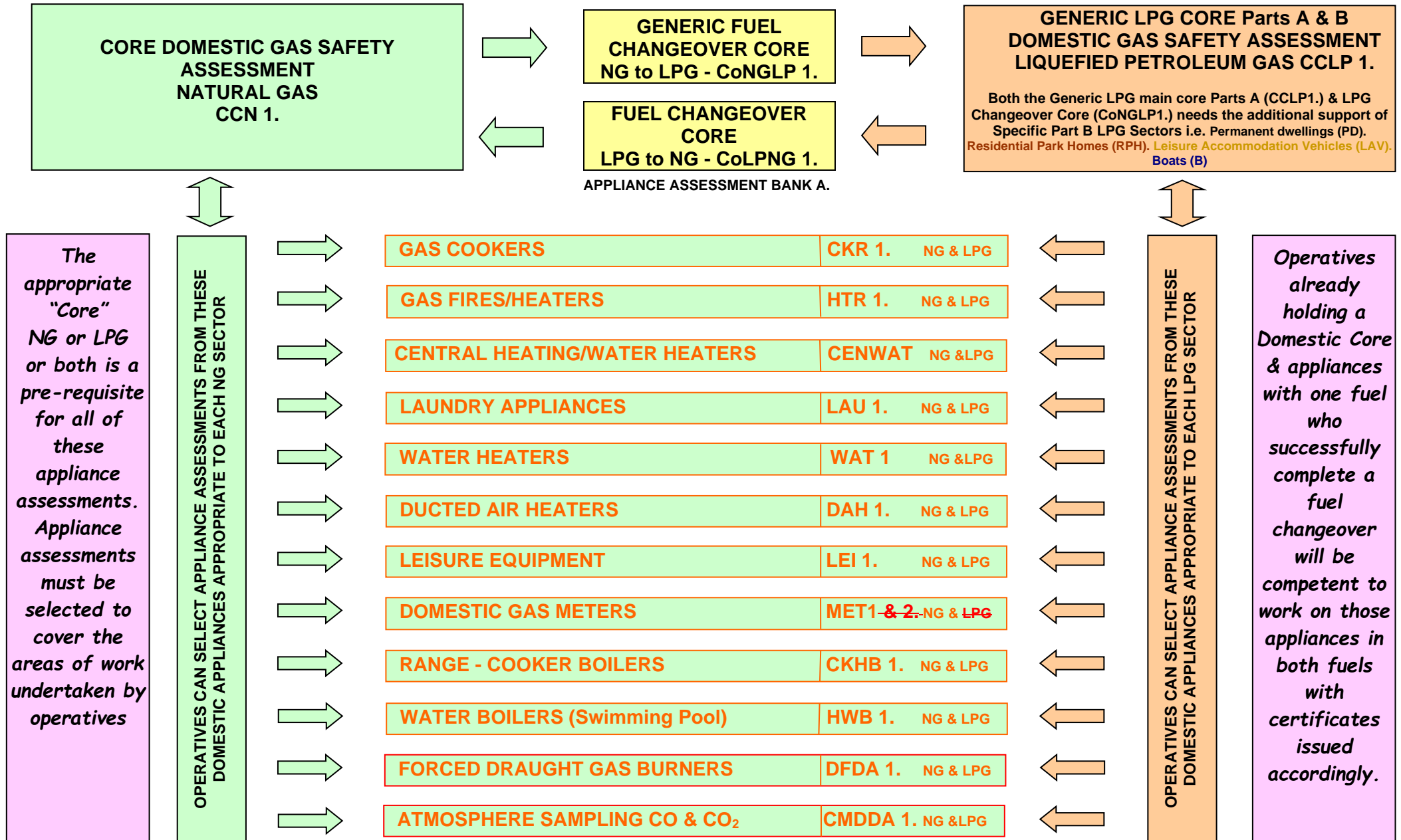
The Flow Charts now include:-

- 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

All assessment details in green boxes containing writing in black & black edged are suitable for natural gas <u>only</u>	NG	 NG Arrow
All assessment details in orange boxes containing writing in black & black edged are suitable for liquefied petroleum gas <u>only</u>	LPG	 LPG Arrow
All assessment details in green boxes containing writing in orange & orange edged are suitable for both NG & LPG	NG & LPG	
All assessment details in yellow boxes containing writing in black & black edged are changeover assessments <u>only</u>		 Changeover Arrow
All purple boxes contain additional information		 Linkage Arrow

INITIAL DOMESTIC GAS SAFETY ACS ASSESSMENTS FLOW CHARTS FOR NATURAL GAS & LPG



NATURAL GAS INITIAL CORE COMPETENCIES

CORE COMPETENCIES CCN 1.

1. Gas Safety Legislation.
2. Gas Emergency Actions and Procedures.
3. Products & Characteristics of Combustion.
4. Ventilation.
5. Installation of Pipework and Fittings.
6. Testing for Tightness.
7. Checking and/or Setting Meter Regulators.
8. Identification of Unsafe Situations and the Use of Emergency Notices and Warning Labels.
9. The Operation of and Positioning of Emergency Isolation Controls and Valves.
10. Checking and Setting Appliance Burner Pressures and Gas Rates.
11. The Operation and Checking of Appliance Gas Safety Devices and Controls.
12. Chimney Standards.
13. Chimney Testing.
14. Installation of Open, Balanced and Fan Assisted Chimney Configurations
15. Re-establish Existing Gas Supply and Relight Appliances.

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.
4. Identification of Unsafe Situations and the Use of Emergency Notices
- 5 Testing for Tightness
6. Checking and/or Setting Meter Regulators
7. The Operation of and Positioning of Emergency Isolation Controls and Valves
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.

- 1 Characteristics of Liquefied Petroleum Gas.
2. Cylinder Location Safety Requirements and Sizing
3. LPG Supply Pressures – Operation of and Positioning of Emergency Isolation, Flow Control and Valves for Cylinders.
4. Gas Emergency Actions and Procedures
- 5 Installation of pipework and fittings for LPG
6. Testing for Soundness installation pipework with total internal volume as per IGEM/UP/1B **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) is covered by criteria from BS EN 10239

NB. Additional competencies are required for specific LPG Sectors i.e. PD, LAV, RPH, B, EP, EPC, Vessel 1 and 2 (See LPG Charts)

Example 1

An operative who installs & commissions, disconnects & repairs natural gas pipe-work only & does not work on any appliances

***SEE FLOW CHART
DOMESTIC
ASSESSMENTS**

- 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

***SEE FLOW CHART
DOMESTIC
ASSESSMENTS**

- 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)

***SEE FLOW CHART
DOMESTIC
ASSESSMENTS**

- 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*

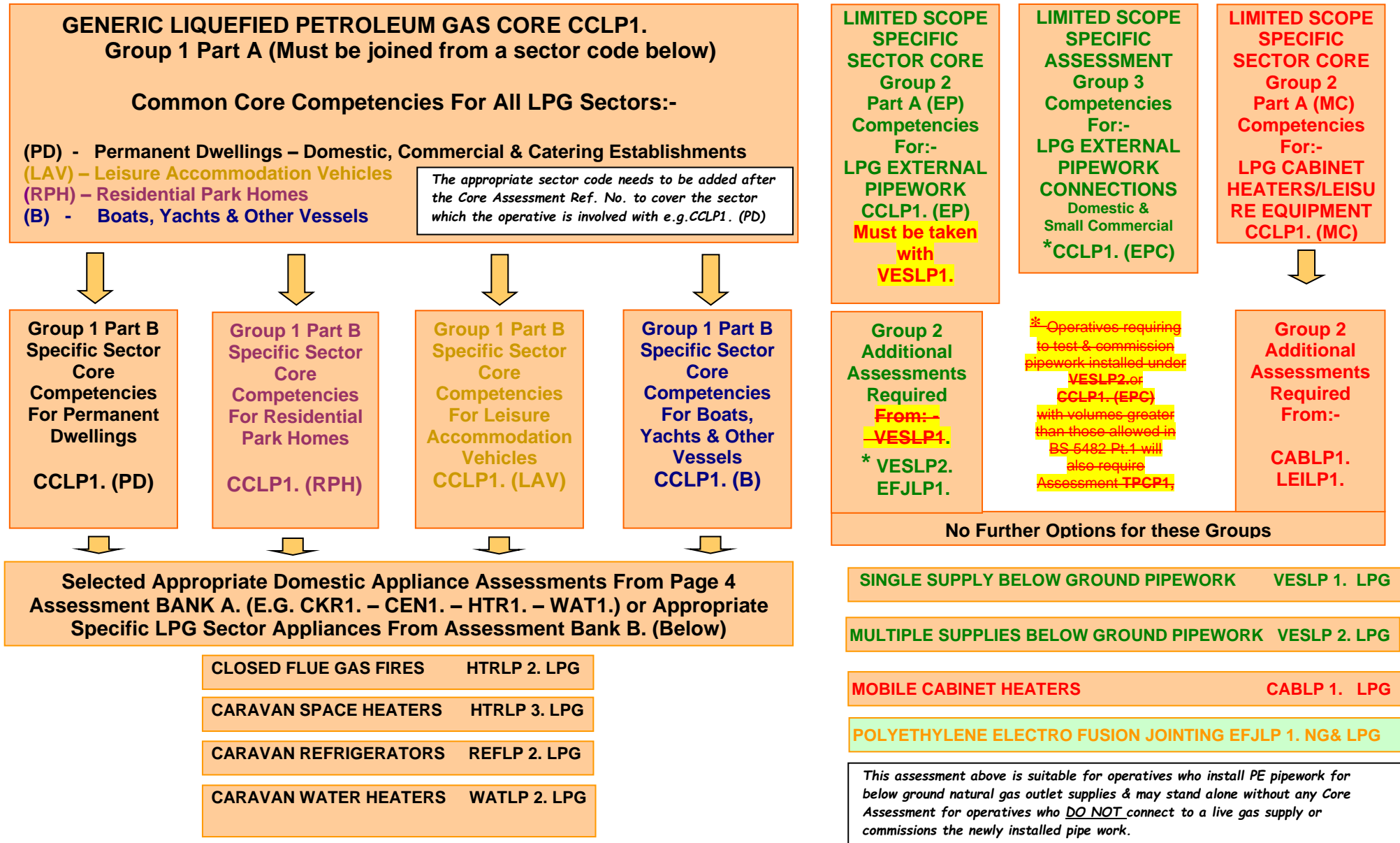
Example 4

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

***SEE FLOW CHART
DOMESTIC
ASSESSMENTS**

- 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 CoNGLP 1.*

INITIAL DOMESTIC GAS SAFETY ASSESSMENTS LIQUEFIED PETROLEUM GAS FLOW CHART FOR SPECIFIC LPG SECTORS (ASSESSMENT BANK B)



LIQUEFIED PETROLEUM GAS GENERIC CORE COMPETENCIES

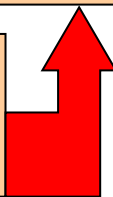
GROUP 1 PART A. GENERIC COMPETENCIES

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 IGEM/UP/1B **BS-5482 pt 1(TM-83)** & Operating Pressures of up to 37mbar
- 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

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).



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.
3. LPG Supply Pressure (Propane) Operation/Positioning of Emergency Isolation, flow Controls & Valves.
4. Gas Emergency Actions & Procedures.
5. LPG Gas Safety Legislation.
6. Installation of Service Pipework, Meters/Fittings Alteration of Existing Installation Pipework (Copper/Steel 6- 35 mm-~~28mm~~, MDPE 32mm)
7. Identification of Unsafe Situations/Use of Emergency Notices & Warning Labels with LPG Gas Installations.
8. Soundness Testing of LPG Service & Installation Pipework.
9. Characteristics of LPG.
10. Products & Characteristics of Combustion.
11. Flueing/Chimney Standards.
12. Ventilation.
13. Re-Establish Existing LPG Supplies & Re-Light Domestic/Commercial Appliances.

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

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**

- 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**

- 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**

- 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*
- WAHLP 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*

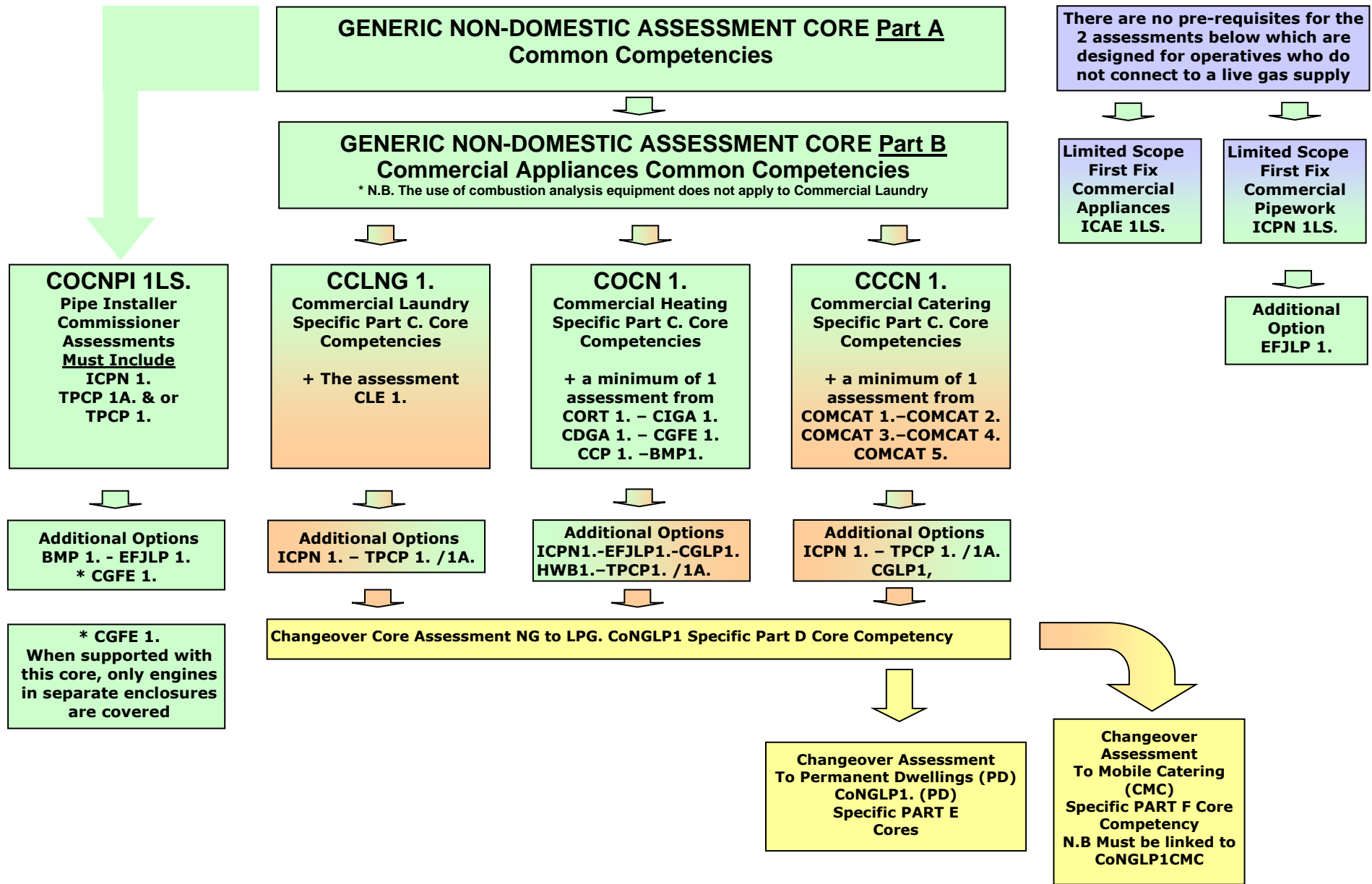
Example 4

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

***SEE FLOW
CHART SPECIFIC**

- 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. (Candidates undertaking CCLP1 EP must also undertake the VESLP1 element)*
- 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



INITIAL NON DOMESTIC/COMMERCIAL GAS SAFETY ACS ASSESSMENTS TITLES

Non Domestic/Commercial Pipework Assessments

COMMERCIAL PIPEWORK IN EXCESS OF 35mm	ICPN 1.	NG & LPG
STRENGTH, TIGHTNESS TESTING & PURGING PIPEWORK up to 16 bars	TPCP 1.	NG & LPG
STRENGTH/TIGHT/TESTING & PURGING PIPEWORK up to 40mbar & 1m ³ volume	TPCP 1A.	NG
GAS BOOSTERS & ASSOCIATED CONTROLS	BMP 1.	NG

Non Domestic/Commercial Catering Assessments

OPEN/SOLID TOP RANGES	COMCAT 1.	NG & LPG
WATER BOILERS PRESSURE/STEAM TYPE	COMCAT 2.	NG & LPG
DEEP FAT & PRESSURE FRYERS	COMCAT 3.	NG & LPG
FISH & CHIP RANGES	COMCAT 4.	NG & LPG
FORCED DRAUGHT BURNER APPLIANCES	COMCAT 5.	NG & LPG
SMALL GAS FIRED GENERATORS	CGLP 1.	LPG

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

Non Domestic/Commercial Heating Assessments

OVERHEAD RADIANT & TUBE HEATERS	includes ICAE1.	CORT 1.	NG & LPG
DIRECT FIRED COMMERCIAL APPLIANCES	includes ICAE1.	CDGA 1.	NG & LPG
INDIRECT FIRED COMMERCIAL APPLIANCES	includes ICAE1.	CIGA 1.	NG & LPG
GAS FUELLED ENGINES	includes ICAE1.	CGFE 1.	NG & LPG

Non Domestic/Commercial Laundry Assessments

COMMERCIAL LAUNDRY EQUIPMENT	CLE 1.	NG & LPG
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Non Domestic/Commercial Miscellaneous Assessments

COMMISSIONING COMMERCIAL PLANT & EQUIPMENT	CCP 1.	NG & LPG
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Commercial Catering Assessment Content Table

COMCAT 1. Appliances Covered	COMCAT 2. Appliances Covered	COMCAT 4. Appliances Covered
<p>*Open/Solid Top Range Boiling Burners 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 Urns Expansion Type Water Boilers Gas Fired Dishwashers Gas Heated Rinsing Sinks Ancillary Equipment</p>	<p>* Pressure Type Water Boiler (Stills or equivalent) Pressure Steamers Pressure Steaming Ovens Ancillary Equipment</p>	<p>* Fish & Chip Ranges These appliances are normally assembled on site to meet shop front requirements.</p>
COMCAT 3. Appliances Covered	COMCAT 5. Appliances Covered	
<p>*Deepfat & Pressure fryers Bratt Pans, Griddles, Grills - Salamanders, Simulated Charcoal, Over/Under fired. Ancillary Equipment</p>	<p>*Forced Draught Burners Appliances covered by assessments COMCAT 1-2-3 fitted with forced draught burners need this assessment</p>	

* 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.

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

***SEE FLOW CHART
NON DOMESTIC
ASSESSMENTS**

- 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

***SEE FLOW CHART
NON DOMESTIC
ASSESSMENTS**

- 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

***SEE FLOW CHART
NON DOMESTIC
ASSESSMENTS**

- 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

***SEE FLOW CHART
NON DOMESTIC
ASSESSMENTS**

- 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

***SEE FLOW CHART
NON DOMESTIC
ASSESSMENTS**

- 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.

***SEE FLOW CHART
NON DOMESTIC
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 CoNGLP1CMC

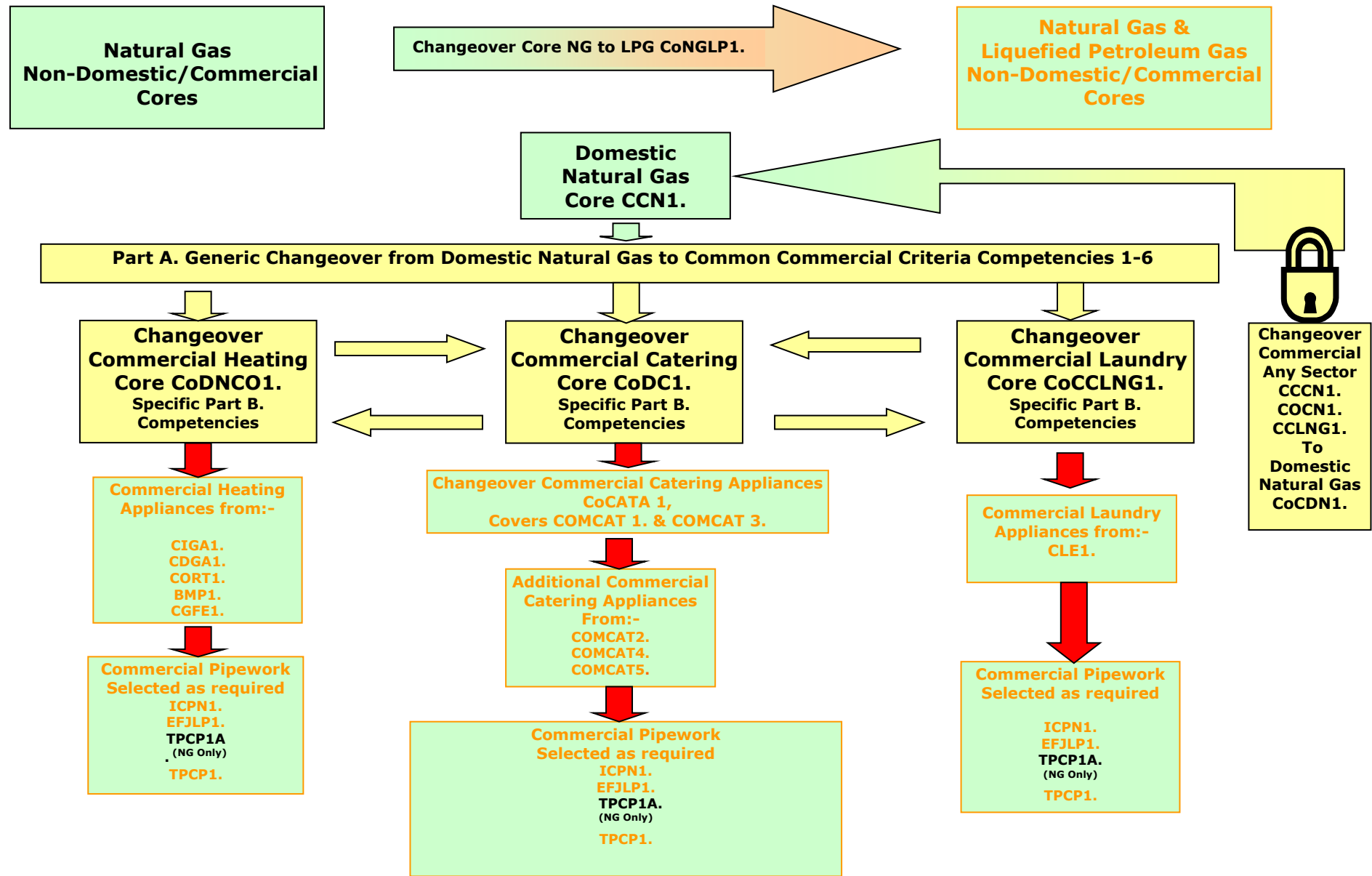
Example 7

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

***SEE FLOW CHART
NON DOMESTIC
ASSESSMENTS**

- 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*

ACS DOMESTIC/NON DOMESTIC/COMMERCIAL INITIAL CHANGEOVER ASSESSMENTS FLOW CHART



Example 1

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

***SEE FLOW CHART
DOMESTIC TO
NON-DOMESTIC
CHANGEOVER
ASSESSMENTS**

- PART A. – *Generic Changeover Assessment Domestic Natural Gas to Common Commercial Appliance Core Competencies 1-6*
- SPECIFIC PART B. CoDNCO1. – *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.

***SEE FLOW CHART
DOMESTIC TO
NON-DOMESTIC
CHANGEOVER
ASSESSMENTS**

- 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.*

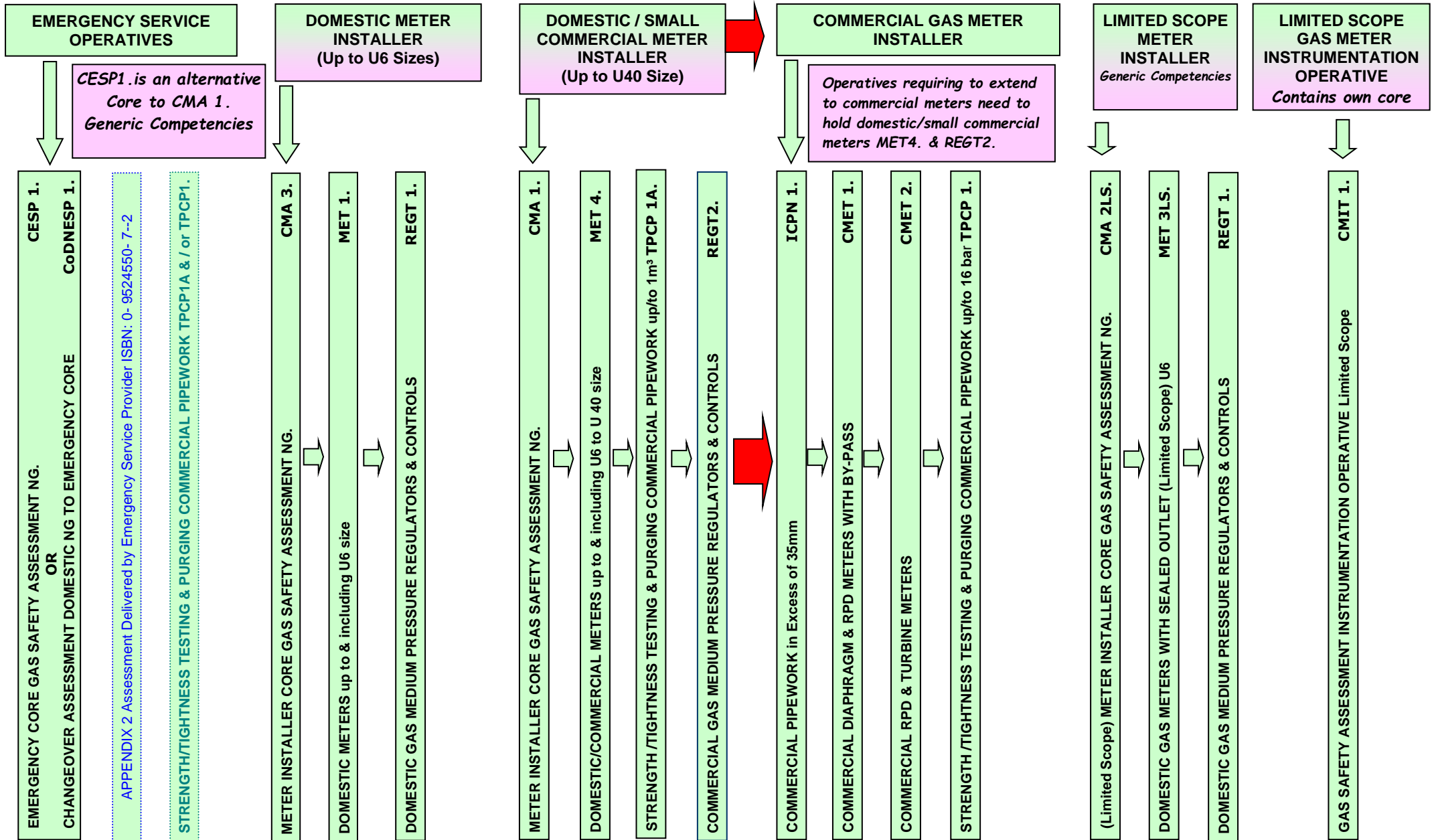
Example 3

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.

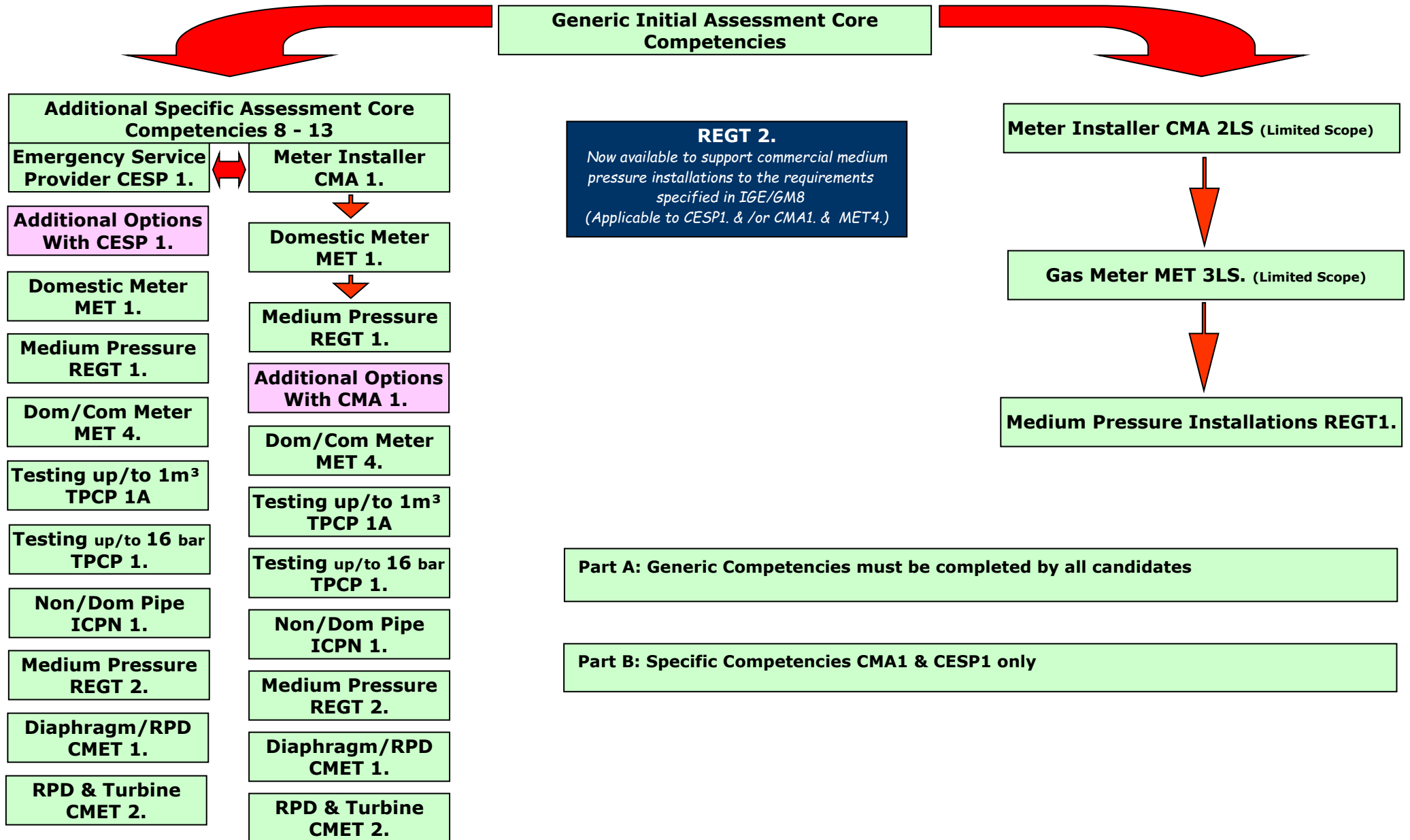
***SEE FLOW CHART
DOMESTIC TO
NON-DOMESTIC
CHANGEOVER
ASSESSMENTS**

- 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.*

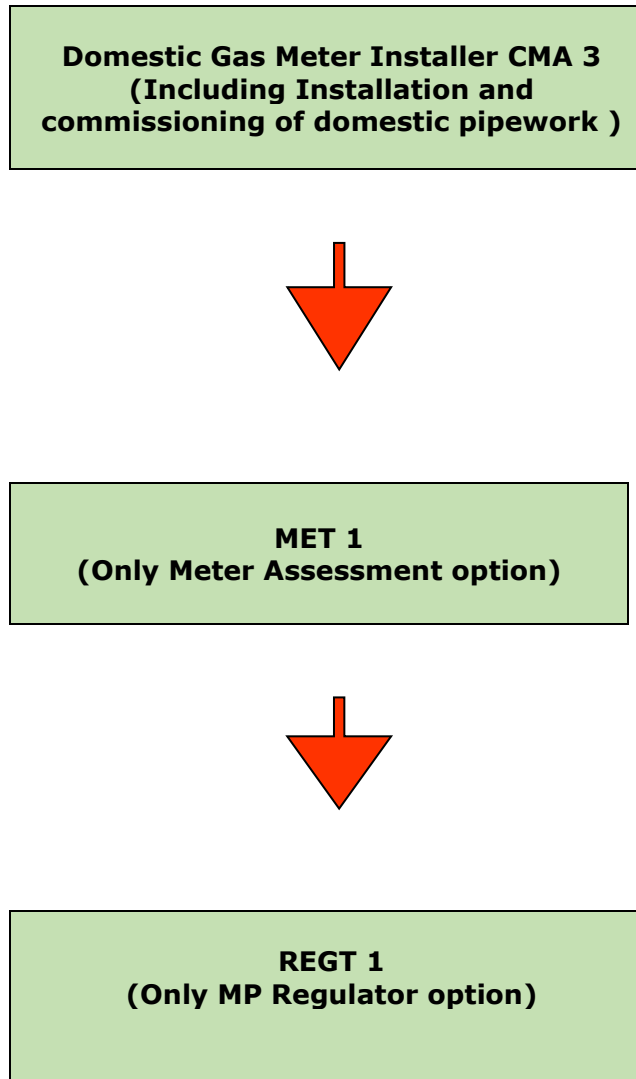
INITIAL EMERGENCY SERVICE OPERATIVES & GAS METER INSTALLERS NATURAL GAS ASSESSMENTS



INITIAL EMERGENCY SERVICE OPERATIVES & GAS METER INSTALLERS ACS GENERIC ASSESSMENTS



CMA 3 DOMESTIC GAS METER INSTALLER ASSESSMENT



***SEE FLOW CHART
INITIAL EMERGENCY
& METER INSTALLERS**

Example 1

An AMI approved meter installer who installs domestic natural gas meters to low pressures supplies with a MP Option

- CMA 3 - *Generic Core designed to test the gas safety competence of an operative in core domestic meter gas work by practical & knowledge & understanding means.*
 - MET 1. - *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.*
- Option
- 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 AMI 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 deemed competent to meet the requirements of **MET 1-2**.*

***SEE FLOW CHART
INITIAL EMERGENCY
& METER INSTALLERS**

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)

***SEE FLOW CHART
INITIAL EMERGENCY
& METER INSTALLERS**

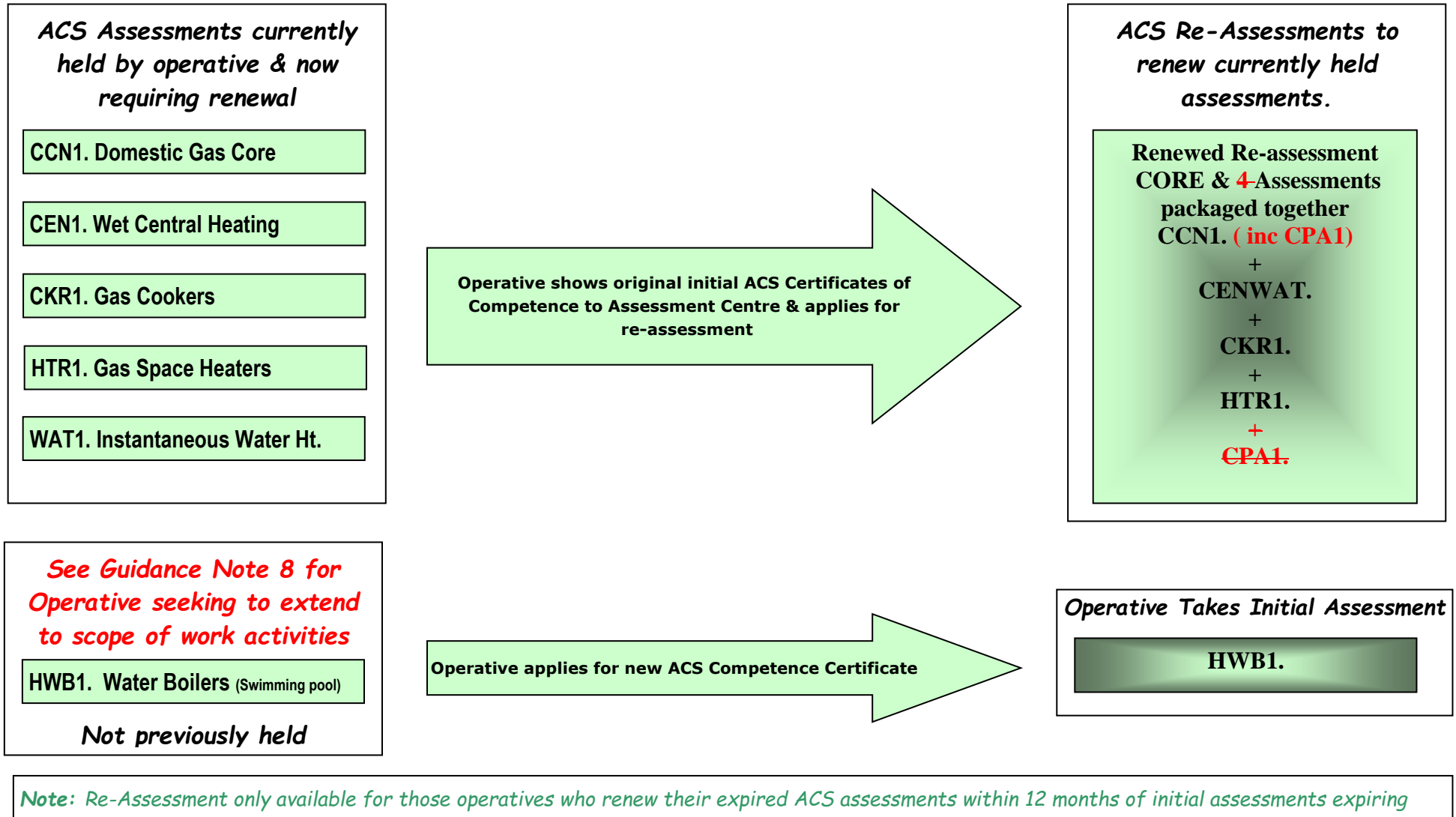
Example 4

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

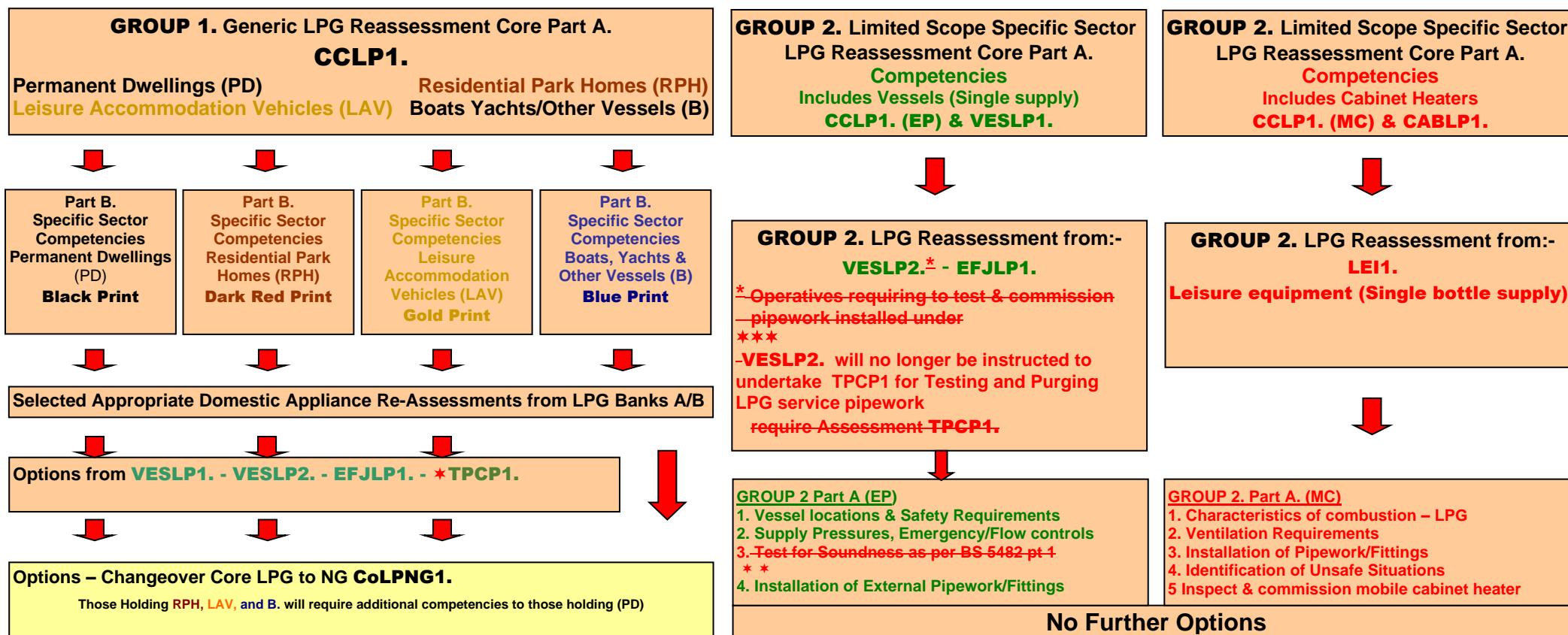
- CMIT 1. - *Generic Core designed to test the gas safety competence of an instrumentation operative in core non-domestic/commercial meter gas work by practical & knowledge & understanding means.*

***SEE FLOW CHART
INITIAL EMERGENCY
& METER INSTALLERS**

ASSESSMENT for DOMESTIC NATURAL GAS



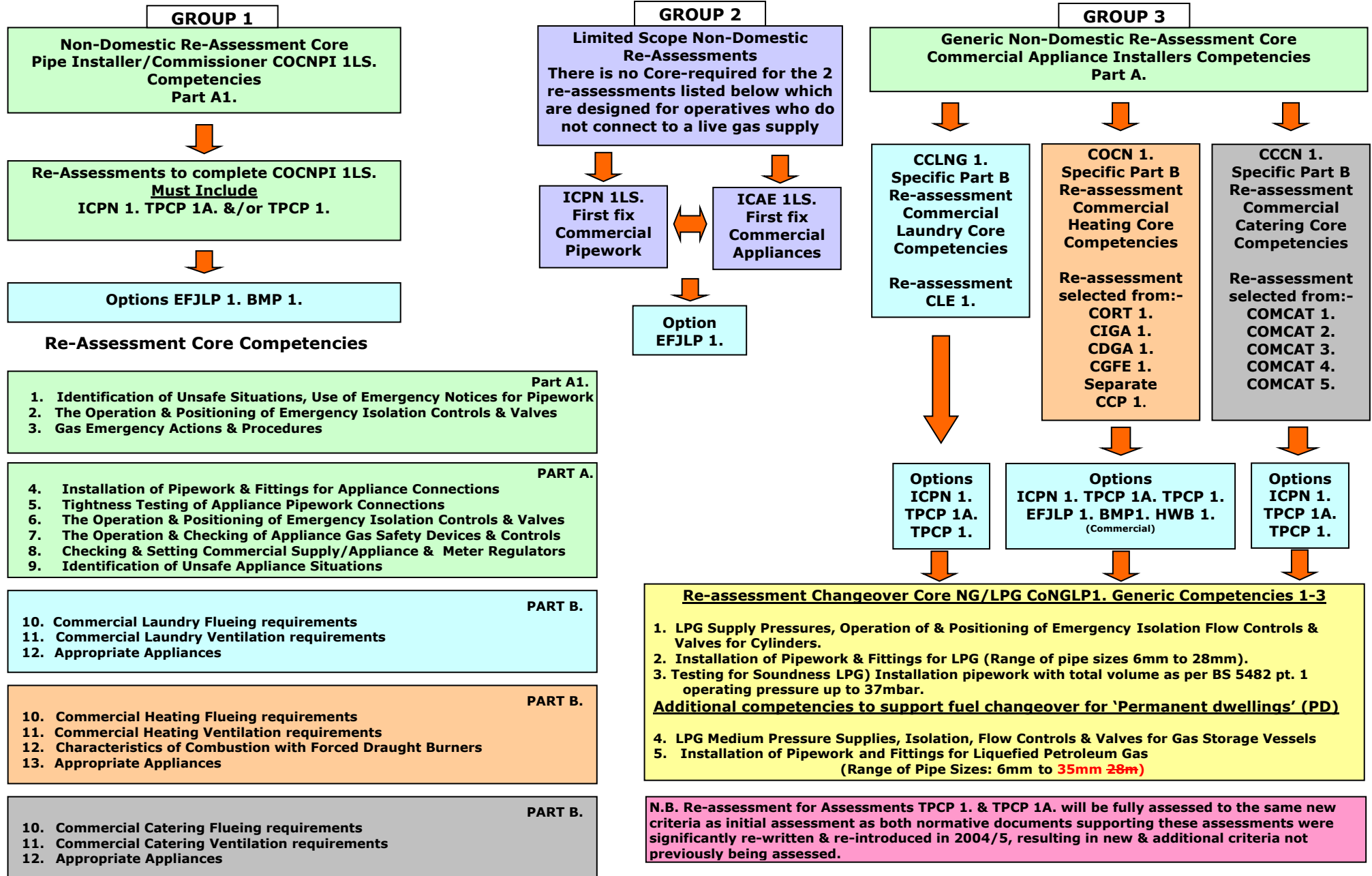
DOMESTIC LIQUEFIED PETROLEUM GAS RE-ASSESSMENT CRITERIA



Note :

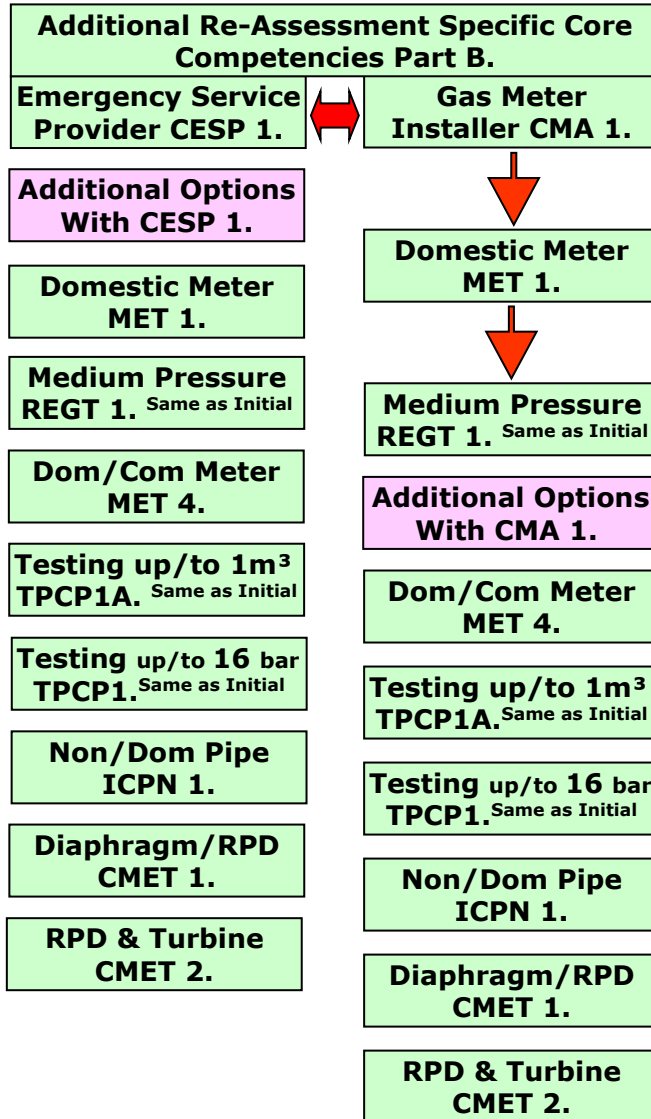
- ★ Reference to TPCP1 in this table is for Testing and Purging of:- LPG Service & Installation Pipework where appropriate. (Candidates may still use & hold TPCP1 until the current IGEM/UP/1 Edition 2 is withdrawn and states it is no longer suitable for testing LPG Service Pipework)
- ★★ Testing for Soundness and the Purging Service Pipework up to 0.035 m³ is completed in VESLP1 as per LGUK CoP22
- ★★★ Testing for Soundness and the Purging Service Pipework > 0.035 m³ is completed in VESLP2 as per LGUK CoP22

NON DOMESTIC/COMMERCIAL ACS RE-ASSESSMENT CRITERIA



EMERGENCY SERVICE OPERATIVES & GAS METER INSTALLERS ACS RE- ASSESSMENTS

Re-Assessment Generic Core Competencies Part A.



REGT 2.

Now available to support commercial medium pressure installations to the requirements specified in IGE/GM8 (Applicable to CESP1. & /or CMA1. & MET4.)

CMIT 1.

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

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

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

Medium Pressure Installations REGT1. Same as Initial

Part A: Generic Competencies 1-5 (must be completed by all candidates)

Part B: Specific Competencies 6-10 (CMA1. & CESP1. only)

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.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6f2ff; border: 1px solid #c00000; padding: 5px;">POLYETHYLENE ELECTRO FUSION JOINTING</td> <td style="background-color: #e6f2ff; border: 1px solid #c00000; padding: 5px;">EFJLP 1.</td> <td style="background-color: #e6f2ff; border: 1px solid #c00000; padding: 5px;">NG & LPG</td> </tr> </table>	POLYETHYLENE ELECTRO FUSION JOINTING	EFJLP 1.	NG & LPG	➔	<p>This assessment is valid with the following core gas safety assessments:-</p> <ul style="list-style-type: none"> ➤ In conjunction with both Domestic NG &/or LPG Cores (CCN 1.–CCLP 1.–CoNGLP 1.) <i>Normal Route</i> ➤ 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)
POLYETHYLENE ELECTRO FUSION JOINTING	EFJLP 1.	NG & LPG			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6ffe6; border: 1px solid #008000; padding: 5px;">TESTING & PURGING PIPEWORK (Not exceeding 1m³ volume)</td> <td style="background-color: #e6ffe6; border: 1px solid #008000; padding: 5px;">TPCP 1A.</td> <td style="background-color: #e6ffe6; border: 1px solid #008000; padding: 5px;">NG</td> </tr> </table>	TESTING & PURGING PIPEWORK (Not exceeding 1m ³ volume)	TPCP 1A.	NG	➔	<p>This assessment is valid with the following core gas safety assessments:-</p> <ul style="list-style-type: none"> ➤ In conjunction with the Commercial NG Core (COCN 1.) <i>Normal Route</i> ➤ In conjunction with any other NG Core
TESTING & PURGING PIPEWORK (Not exceeding 1m ³ volume)	TPCP 1A.	NG			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6f2ff; border: 1px solid #c00000; padding: 5px;">TESTING & PURGING INSTALLATION PIPEWORK</td> <td style="background-color: #e6f2ff; border: 1px solid #c00000; padding: 5px;">TPCP 1.</td> <td style="background-color: #e6f2ff; border: 1px solid #c00000; padding: 5px;">NG & LPG</td> </tr> </table>	TESTING & PURGING INSTALLATION PIPEWORK	TPCP 1.	NG & LPG	➔	<p>This assessment is valid with the following core gas safety assessments:-</p> <ul style="list-style-type: none"> ➤ In conjunction with both Commercial NG &/or LPG Cores (COCN 1.–CoDNCO 1.–CoNGLP 1.) <i>Normal Route</i> ➤ In conjunction with any other Core
TESTING & PURGING INSTALLATION PIPEWORK	TPCP 1.	NG & LPG			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6ffe6; border: 1px solid #008000; padding: 5px;">DOMESTIC APPLIANCES - NG & LPG (Cookers, Hot Water/Central Heating Boilers, Water Heaters)</td> <td style="background-color: #e6ffe6; border: 1px solid #008000; padding: 5px;">NG & LPG</td> </tr> </table>	DOMESTIC APPLIANCES - NG & LPG (Cookers, Hot Water/Central Heating Boilers, Water Heaters)	NG & LPG	➔	<p>This assessment is valid with the following core gas safety assessments:-</p> <ul style="list-style-type: none"> ➤ In conjunction with both Domestic NG &/or LPG Cores (CCN 1.–CCLP 1.–CoNGLP 1.) <i>Normal Route</i> ➤ Limited scope (occasional involvement from appliance isolation valve to appliance in commercial environment) in conjunction with Commercial I/Commercial Catering (COCN 1. - CoDNCO 1. – CoNGLP 1. – CCCN 1. - CoDC1.) 	
DOMESTIC APPLIANCES - NG & LPG (Cookers, Hot Water/Central Heating Boilers, Water Heaters)	NG & LPG				

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.

Candidates Questions

Response

I hold ACoP 1-14 qualifications that are out of date.
What ACS assessments do I need to take?



What areas of gas work do you undertake?
Use domestic NG flow chart & Guidance Note 8 to advise candidate

I carry out work on NG domestic cookers and hold CCN1 & CKR 1, however; I need to be able to carry out this type of work on LPG.
What assessment do I need to take?



Use domestic NG flow chart & Guidance Note 8 to advise the candidate

I work on Touring Caravans, Residential Park Homes and Boats.
What ACS assessments do I need to take?



What gas appliances do you carry out gas work on?
Use page domestic LPG chart to advise candidate, which core & sector assessment to take.
Use page domestic NG & LPG flow charts to advise candidate

I install test & purge large commercial pipework, install & commission commercial Overhead Radiant Tube Heaters.
What ACS assessments do I need to take?



Use non-domestic flow chart to advise the candidate to undertake suitable core and appliance/equipment assessments

I install commercial pipe-work & appliances but do not connect to a live gas supply or commission the equipment.
What ACS assessments do I need to take?



Ensure the candidate is a "Limited Scope" operative and refer to the non-domestic flow chart

I only install domestic gas meters up to U16 size.
What assessments do I need to take?



Enquire as to whether the candidate carries out work on behalf of a Gas Transporter (GT) Meter Asset Manager or Gas Supplier & is approved by an OAMI registered business. If so, refer to ESP flowcharts to advise candidate which assessments to take.

Candidates Questions

Response

I hold CCN1 & CKR1 and wish to take a "changeover" assessment to extend my scope of work to include commercial catering appliances



Refer to non-domestic changeover flowchart & See Guidance Note 8 to advise candidate. ~~which assessment to take.~~

Note: Advise the candidate that the commercial catering appliance categories will cease to be valid when the Core CCN1 assessment expires.

Which ACS assessments do I need to take to enable me to work on Mobile Catering Equipment?



Enquire as to which (if any) ACS assessments the operative holds & refer non-domestic flowchart

NOTE:
If uncertain about any assessment requirements contact
malcolm.greetham@euskills.co.uk
of
Energy & Utility Skills Ltd.
Tel. No.
0845 077 99 22