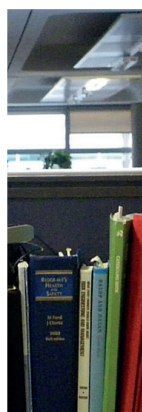


# IChemE

Institution of  
Chemical Engineers

## Transition guidance document between current and new C&C report

Guidance for applicants



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# General advice

## Who should read this guidance?

This guidance is intended for:

- applicants for Chartered Chemical Engineer (CEng) who began preparing their C&C report using the previous template and are now required to complete their application using the updated, UK-SPEC-aligned C&C template.
- mentors and supervisors who are supporting applicants through the application process, including those involved in accredited training schemes (such as ACTS), and who need to understand how the updated template differs from the previous version.
- Professional Reviewers who will be reviewing applications submitted using the new C&C report and who require clarity on how evidence should be interpreted during the transition period.

## How will this guidance help me?

This guidance has been developed to support applicants and those assisting them by:

- explaining why the C&C report template has changed and how it more transparently aligns with the UK-SPEC (4th Edition).
- providing a clear overview of the new C&C, including the intent of each section and sub-section.
- highlighting key differences between the previous and updated templates, including new or more explicit requirements.
- showing how evidence from the previous C&C template can be mapped to the new UK-SPEC-aligned format, helping applicants reuse and adapt existing material where appropriate.

The aim of this guidance is to help applicants present their competence clearly and confidently, while ensuring consistency, transparency, and alignment with professional standards.

## Why has the C&C report template changed?

IChemE took a decision to align the C&C report more closely with the **Engineering Council's UK Standard for Professional Engineering Competence (UK-SPEC), 4th Edition**.

The previous C&C report was, of course, fully compliant with UK-SPEC; however, the individual questions did not map directly to the UK-SPEC competence statements. Instead, IChemE had interpreted the UK-SPEC requirements and incorporated them into a bespoke structure. While this approach worked well for many years, it created several challenges:

- Each time UK-SPEC was updated (typically every three to four years), the IChemE C&C template had to undergo a full review to confirm continued compliance.
- During annual Engineering Council licence reviews, it was often difficult to demonstrate clearly and transparently that the C&C template fully met UK-SPEC requirements.
- Other Professional Engineering Institutions (PEIs) already use application templates that map directly to UK-SPEC, making cross-discipline training schemes and third-party oversight (for example within ACTS schemes) easier to manage.

In addition, the recently introduced **Professional Process Safety Engineer (PPSE)** application already follows the UK-SPEC format, reinforcing the case for consistency.

By adopting a UK-SPEC-aligned C&C template, IChemE aims to:

- Simplify future updates when UK-SPEC changes
- Improve transparency during Engineering Council audits
- Make it easier for multi-disciplinary employers to understand how evidence aligns with professional standards
- Maintain full compliance while improving clarity and usability

It is important to emphasise that no **professional standards have been reduced or removed**. All existing IChemE requirements for Chartered Chemical Engineer remain fully embedded within the new template.

# Overview of the previous C&C template

The previous C&C report was structured into five sections:

- Section A (A1–A5): Application of knowledge and understanding to practical situations
- Section B (B1–B3): Wider implications of engineering work
- Section C (C1–C3): Interpersonal, leadership, and communication skills
- Section D (D1–D2): Professional and ethical conduct
- Section E (E1–E2): Continuing Professional Development (CPD)

Although this structure covered UK-SPEC requirements in full, the alignment was indirect rather than explicit.

# Structure of the new UK-SPEC-aligned C&C template

The new C&C template retains **five main sections**, but the number of sub-sections and the wording of questions have changed to align directly with UK-SPEC. Some topics that were previously grouped together are now addressed separately, while others have been consolidated.

Applicants should note that **topics may now appear in different sections compared with the previous template.**

## Section A – Knowledge and understanding

### Evidence of applying your knowledge and understanding to practical situations

- **A1:** Demonstrate that you have maintained and extended a sound theoretical approach to enable you to develop as a Chartered Chemical Engineer.

This section includes evidence of CPD that was previously addressed in Section E.

- **A2:** Develop chemical engineering, technical, or scientific solutions to unusual or challenging problems, optimising products, processes, equipment, methods, or projects.

This section covers similar areas that were previously covered by A1, A2 and A3.

## Section B – Design, development, and problem solving

### Evidence of your ability to apply appropriate theoretical and practical methods

- **B1:** Take an active role in identifying and defining project requirements, problems, and opportunities.
- **B2:** Identify and carry out appropriate investigations and research to support design, development, and analysis.
- **B3:** Implement chemical engineering tasks and evaluate safety and the effectiveness of engineering, technical, or scientific solutions.

Section B has three sub-sections as before, however the questions are quite different and focus on chemical engineering experience. **We have decided to include the important topic of process safety in B3.**

## Section C – Responsibility, management, and leadership

- **C1:** Plan work and resources to enable effective implementation of a significant engineering task or project.
- **C2:** Manage programmes, budgets, schedules, and resources, including commercial considerations.
- **C3:** Lead teams or technical specialisms, combining contributions from different disciplines.
- **C4:** Promote continuous quality improvement and best practice.

Section C has four sub-sections covering evidence of responsibility, management and leadership. There is some similarity to the old section C but with a different focus, and C4 is concerned with a new topic for membership applicants, namely quality improvement and the promotion of best practice.

## Section D – Communication and interpersonal skills

- **D1:** Communicate effectively with others at all levels, in English.
- **D2:** Present and discuss proposals, justifications, and conclusions clearly, both orally and in writing.
- **D3:** Demonstrate personal and social skills and awareness of diversity and inclusion issues.

Section D has three sub-sections and again is quite different to the sub-sections of section D in the old template. The first two sections are quite similar to the old template's section C, but you will note that a new question for applicants is now included as D3 that covers awareness of diversity and inclusion.

## Section E – Personal and professional commitment

- E1: Understand and comply with relevant codes of conduct, including the IChemE Code of Conduct and Ethics.
- E2: Understand the principles of safety and manage, apply, and improve safe systems of work.
- E3: Understand and apply the principles of sustainable development.
- E4: Record and plan Continuing Professional Development (CPD), including recent activity and future plans.
- E5: Recognise ethical issues and act responsibly and ethically in your role.

Section E is very different from the old section E, with the exception of E4. Although the topics are all quite similar and were covered generally in the previous C&C template, you can see that these five sections have distinct requirements for particular aspects of personal and professional commitment. By this I mean compliance with the IChemE Code of Conduct and Ethics for E1, evidence of behavioural safety in E2 and demonstrating an understanding of sustainability in E3. Actually, every sub-section of section E is directly linked to the **IChemE Code**, and applicants must show that they comply with this code.

# What is new or emphasised in the updated template?

While all previous requirements remain, the new template:

- Separates **process safety** (B3) and **occupational safety** (E2)
- Requires CPD evidence in **two places**:
  - Technical development (A1)
  - Formal CPD records and future plans (E4)
- Introduces explicit requirements for:
  - Diversity and inclusion (D3)
  - Sustainability (E3)
  - Quality improvement and best practice (C4)

# Mapping the old template to the new template

To support applicants transitioning from the previous C&C template, a mapping has been developed. This mapping has been used as the basis for all supporting guidance.

In some cases:

- One old section maps to multiple new sections
- Multiple old sections map to a single new section

For example:

- Evidence from old A1, A2, and A3 may now be used in A2
- Evidence from old D1 may now be relevant to C4 and D1

## Mapping summary

How do the 'new' and 'current' templates align?	
New	Current
A1	E1
A2	A1,A2,A3
B1	A5
B2	A4
B3	B1,B2
C1	A5
C2	C1,B3
C3	C2
C4	D1
D1	C1, C2
D2	C3
D3	C1
E1	D1
E2	B1
E3	B2
E4	E2
E5	D2

How do the 'current' and 'new' templates align?	
Current	New
A1	A2
A2	A2
A3	A2
A4	B2
A5	B1, C1
B1	B3, E2
B2	B3, E2
B3	B3, E3
C1	C2, D1, D3
C2	C3, D1
C3	D2
D1	C4, E1
D2	E5
E1	A1
E2	E4
	E2
	D2

This mapping is intended to help applicants reuse and adapt existing evidence where appropriate.

# Key message for applicants

All professional expectations for Chartered Chemical Engineer remain unchanged. The updated C&C template:

- Improves clarity
- Aligns directly with UK-SPEC
- Makes it easier to demonstrate competence in a structured and transparent way

Applicants should focus on **providing clear, relevant evidence for each question**, rather than trying to replicate responses from the previous template verbatim.

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