

Getting Chartered



Amy Stewart
Regional Support Executive



Presentation outline

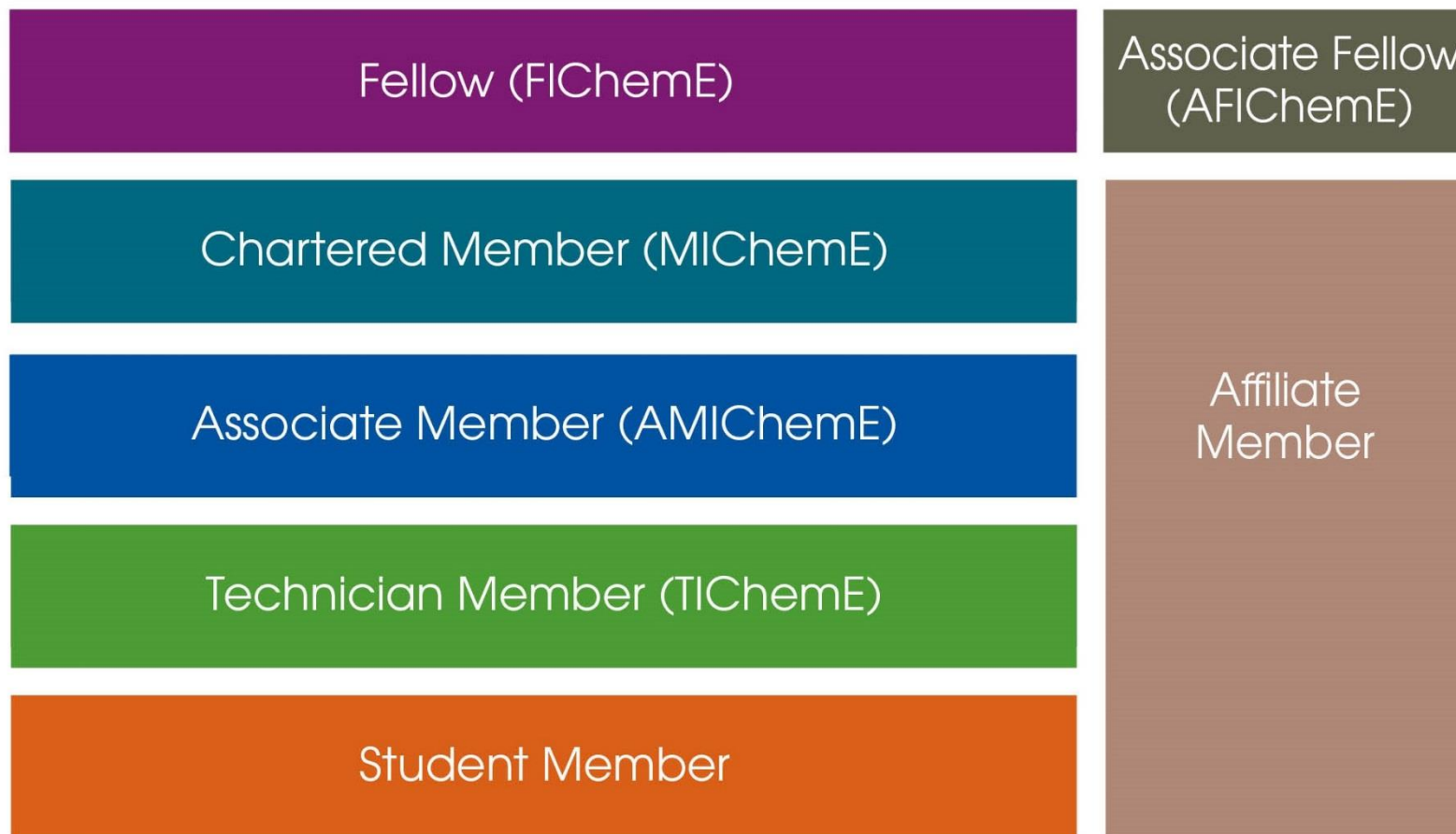
- about IChemE
- what is a Chartered Chemical Engineer?
- qualification requirements
- Chartered Chemical Engineer competencies
- application process
- hints and tips



A learned society with international reach



Pathways to membership



What is a Chartered Chemical Engineer?

“a competent practitioner committed to the highest, professional standards”

- ☑ widely recognised
- ☑ externally validated
- ☑ peer reviewed
- ☑ Engineering Council



Why get Chartered?

- career development and salary progression
- employer expectations
- client requirements
- peer recognition
- postnominals - MChemE
- professional pride and commitment



Additional professional registrations

At time of application

Chartered Engineer (CEng)

Chartered Scientist (CSci)

Registered Professional Engineer
Queensland (RPEQ)

Once Chartered

Professional Process Safety
Engineer

European Engineer (EurIng)

Chartered Environmentalist (CEnv)





How to get Chartered



Chartered application requirements

Knowledge & understanding

core principles

advanced chemical
engineering & design

Professional experience

competence

commitment

Submit application



Supporting evidence requirements

Knowledge & understanding

Degree accredited to M-Standard = no additional evidence required.

Degree accredited to B-Standard or non-accredited = further evidence required.

Professional experience

Competence and Commitment (C&C) report.

Submit application





Preparing your Competence and Commitment report



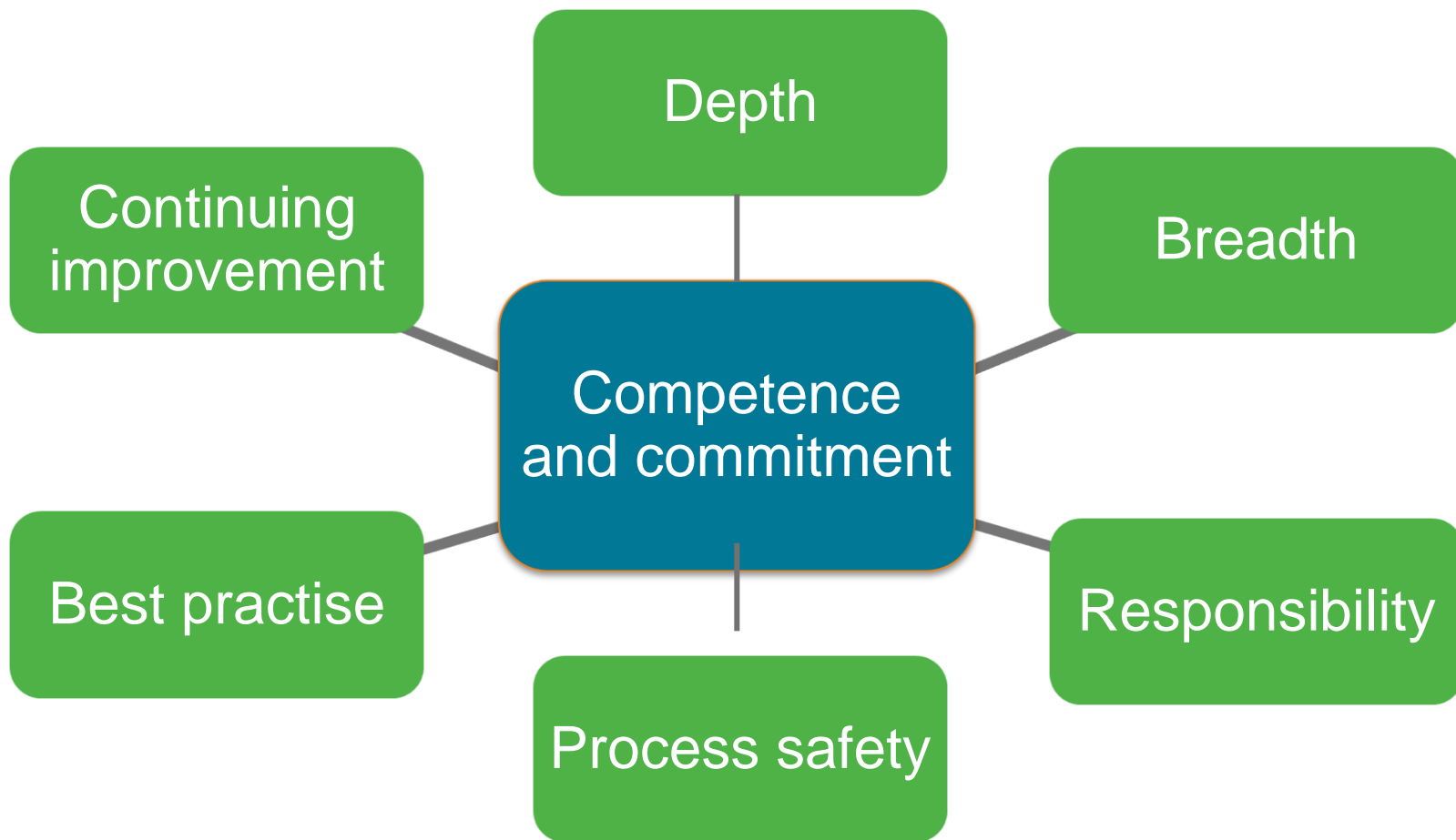
C&C report

- proof of professional competence
- 3,000 words max
- templates, examples and guidance available at: www.icheme.org/candc

The image shows a screenshot of the IChemE 'Competence and Commitment Report' form. At the top left is the IChemE logo with the tagline 'ADVANCING CHEMICAL ENGINEERING WORLDWIDE'. The title of the form is 'COMPETENCE AND COMMITMENT REPORT Chartered Member (MIChemE) Chartered Chemical Engineer'. Below the title, there is a paragraph of instructions: 'Complete this report to provide evidence that you have the required level of professional experience in support of an application for Chartered Member. For further guidance and to check what evidence is required of your knowledge and understanding, please refer to www.icheme.org/chartered'. This is followed by another paragraph: 'Please complete this report electronically, within approximately 3,000 words [each subsection will expand to allow you to provide sufficient evidence], then sign the applicant's statement, obtain confirmation and upload as part of an [online application](#).' There are three input fields: 'Family name: (enter)', 'Given name: (enter)', and 'Title: (enter)'. A section titled 'Tick one box only to indicate which application route this report refers to:' contains three radio button options: 'MIChemE + CEng registration', 'MIChemE + CSci registration', and 'MIChemE only'. Below this are two notes: '(i) If you wish to apply for both registrations, an additional Section A and Section E must be submitted separately.' and '(ii) If you do not intend to take up a registration you must still tick the last box for Chartered Member of IChemE.' The next section is 'Your evidence should describe:' with two options: 'either chemical and general engineering knowledge and understanding (with option of CEng registration)' or 'or scientific knowledge and understanding (with option of CSci registration)'. Section 'A Evidence of applying your knowledge and understanding to practical situations:' lists five sub-points (i) through (v), each with a brief description and a placeholder '(expand as necessary)'. At the bottom left of the form is 'Page 1 of 4' and at the bottom right is 'C&C Report CEng and CSci 09.11.2018 V2.1'.



Show your experience



Examples of professional experience

Process plant operation

Legalisation, regulation

Computer application

Development of
products, services

Project management,
administration

Teaching, managing,
training

Instrumentation &
control

Quality & assurance

Technical/economic
evaluation

Research &
development

Economic accountancy,
cost estimation

Technical sales,
marketing, contracts

Health, safety, risk
aspects

Design of process plant
& equipment

Sustainability &
environmental aspects



Professional responsibility

- working under own supervision
- training others
- budget control
- acting on your own initiative
- responsible for consequences of your technical judgements



You **do not** need to lead a team of engineers.



The Competence and Commitment report

A

Demonstrates ability to apply chemical engineering knowledge and understanding to practical situations.

B

Shows ability to handle the wider social, environmental, and economic implications of your work.

C

Shows interpersonal, leadership and communication skills.

D

Demonstrates commitment to a high standards of professional and ethical conduct.

E

Demonstrates effective continuing professional development.



Competence and Commitment report

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Section A

i - Identifying a problem

For example:
environmental hazard,
safety or product quality.

Example solutions

- new technology
- new product development (NPD)
- market growth



Section A

ii - Interdisciplinary working

Combining ideas of different people and disciplines to arrive at appropriate engineering, solutions.

Example collaborators

- other engineers
- specialists
- public authorities
- finance
- sales and marketing



Section A

iii - Creativity & innovation

Your ideas, designs technical solutions, processes for cost reduction, efficiency or improvements.

Example ideas

- suitability of design
- lateral thinking
- novel approaches
- link to proven solutions
- making process easier



Section A

iv - Scientific or technical evaluation

Product, process equipment vs brief requirement.

Example considerations

- safety
- feasibility
- evaluative approach
- engineering skills requirement



Section A

v - Planning & project delivery

Your contributions and leadership in organising technical work and validating solutions.

Example contributions

- implement or validate solutions, designs
- correction measures



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Section B

i - Handling health and safety aspects

Application of key principles, legislation good practice etc.

Example solutions

- HAZOP
- risk register
- safety inspections
- regulation compliance



Section B

ii - Handling sustainability aspects

Environmental concerns
recognition of risks
social issues.

Example management

- reducing waste
- emissions
- impact assessments
- sustainability



Section B

iii - Show management of commercial and economic aspects

Economic evaluation of process/plant.

Example management

- cost estimating
- tendering
- managing budgets



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Section C examples

i - working peer & staff relationships

Ensuring you and colleagues are up-to-date.

Example considerations

- managing challenges
- conflict resolution
- cultural awareness
- achieving objectives across teams



Section C examples

ii - Demonstrating leadership

Initiating projects, delegating, training promoting ChemEng.



Example of personal drive

- conveying commitment and enthusiasm
- achieving team results
- working with peers



Section C

iii - Communicating ideas and plans

E.g. show how you communicate effectively

Example of effective communication

- report writing
- technical presentations
- oral presentations
- PhD, EngDoc



Competence and Commitment report

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Section D

What you do to help advance profession and ethical conduct?

i - Professional conduct examples:

- working to codes of conduct
- supporting professional body/ mentoring
- schools outreach – promoting ChemEng
- Member group activities, workshops and seminars

ii - Ethical conduct examples:

- decision making
- adherence to policy and procedures
- avoiding conflicts of interest
- health and safety, employee misconduct



Section E

Continuing Professional Development

Need to show goals and potential benefits.

i Recent CPD activity

ii Future CPD goals

Examples of CPD activity:

- in-house/external courses
- IChemE Member Group or Special Interest
- on-the-job learning
- experience of working in different discipline within chemical engineering
- research/publishing



Section E

E Continuing professional development (CPD)

i) Report of recent CPD already undertaken (eg within last two years):

Briefly describe the methods and tools you use to record your CPD activities	(expand as necessary)
Describe the significant CPD activities you have carried out in the last 1-2 working years	For each activity listed, describe the purpose / objective of carrying it out and the benefits you gained from it.
(expand as necessary)	(expand as necessary)

ii) Future CPD Plan

Briefly describe the method and approach/tools that you use to identify your CPD development objectives, and how they are turned into an actionable plan.	(expand as necessary)
Describe the development objectives that you have identified to be addressed in the next 1-2 years and the purpose of each one	For each development objective listed, describe what activities you plan to carry out to achieve it and the expected timescale
(expand as necessary)	(expand as necessary)



Verifying your C&C report

- third party verification of your C&C report is required
- verifiers must be familiar with your work and hold a position of responsibility
- do not necessarily have to be Chartered Members or chemical engineers



Referees

Two referees must be:

- Chartered or Fellow Members of IChemE familiar with you, your work and career

can be:

- superior
- your mentor
- regional group or SIG group member
- university lecturer





Application process



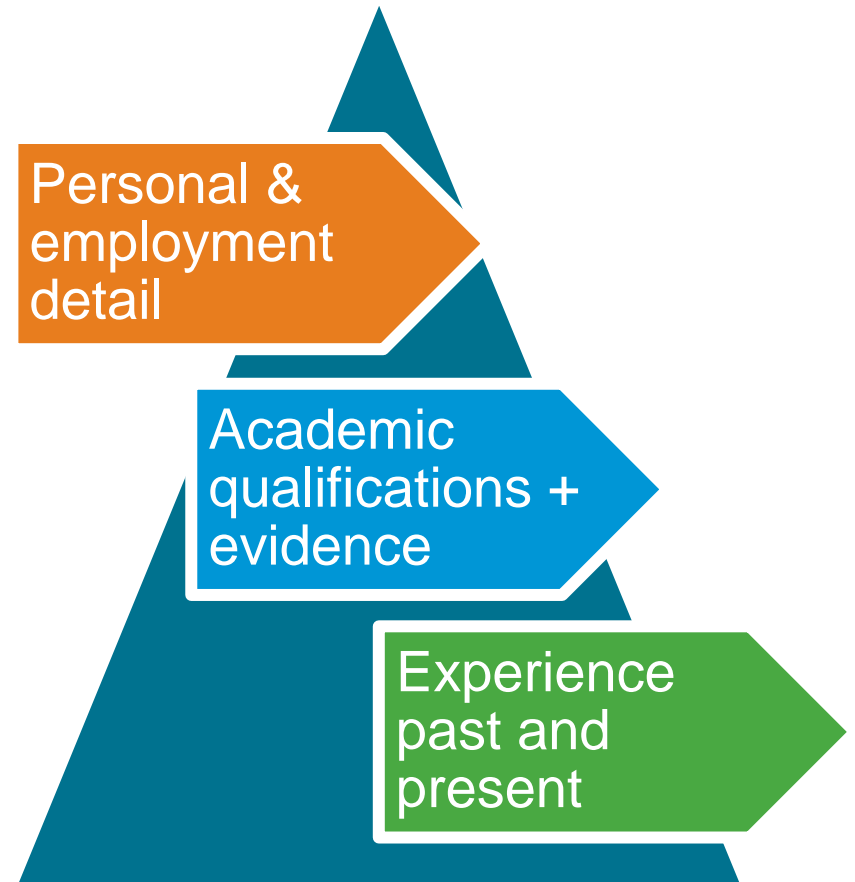
Application checklist

- C&C report
- academic qualifications
- technical or design evidence report/s (if relevant)
- photo ID and tailored CV



CV must include

- tailored, up-to-date summary of your experience
- relevant information only



Application process



Interview stage

- approximately **one hour** interview
- the interviewers ask questions based on the C&C report and your CV
- trained Chartered Members and/or Fellows conduct the interviews





Hints and tips



Competence and commitment report

- **start** application now
- use C&C **template**
- **update** regularly
- **observe** 3000 word limit
- ask for advice from a mentor
- demonstrate **problem- solving**
- show technical **decision- making**
- show professional **responsibility**

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Getting your C&C report right

- include **technical** not sensitive or confidential detail
- choose **one** in-depth example & 1-2 brief points
- use **plain English**
- ask a mentor to check for **gaps** in your experience
- focus on **how** you solve problems



Getting Chartered Q&A

www.icheme.org/chartered



Amy Stewart
members@icheme.org

