



THE CHARTERED ENGINEER STRUCTURE

An Introduction

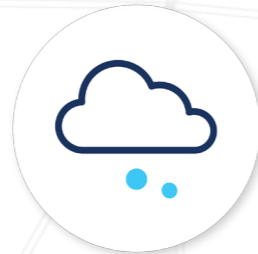


KNOWLEDGE
EXPERIENCE
COMMITMENT
EXCELLENCE

AUGUST 2016



WHY ARE WE DEVELOPING THIS?



To ensure the competence and commitment of our engineers is at an international quality standard, and to raise these standards. Therefore, insuring the safety of the public.



To promote knowledge and understanding of engineering, make an impact on society and help educate the future generation of engineers.



As a professional organisation we want to support engineers in their professional development, and to provide a multi-disciplinary network of engineers, industry and academia.



THE CHARTERED ENGINEER STRUCTURE



What is it?



Qualification

An internationally recognised qualification for engineers as a Chartered Engineer (CEng) or an Incorporated Engineer (IEng).



A Structure

Offers a structure for knowledge exchange and continual professional development across multiple engineering workfields and disciplines. Key elements are reflective learning, peer review and the development of the engineer's knowledge and experience.



Distinguish

An opportunity for excellent and dedicated engineers to distinguish themselves, and to set them apart from other engineers who aren't registered.



Proof

It is proof of your competence, commitment and that you attain and maintain a professional quality standard.



Access

Access to interesting projects and better jobs. In a growing number of countries Chartership is required for acquiring high level projects.

WHY IS IT IMPORTANT?

Connects

Chartership connects all parties within the profession - i.e. engineers, companies, universities and research centres - on a national and international level around an international quality standard.



Career Support

Supports engineers through personal CPD so they can be continually and professionally engaged at a high level, and in collaboration with others inside and outside of their professional field. Plus access to the latest technological research and developments.

Engineering Profession

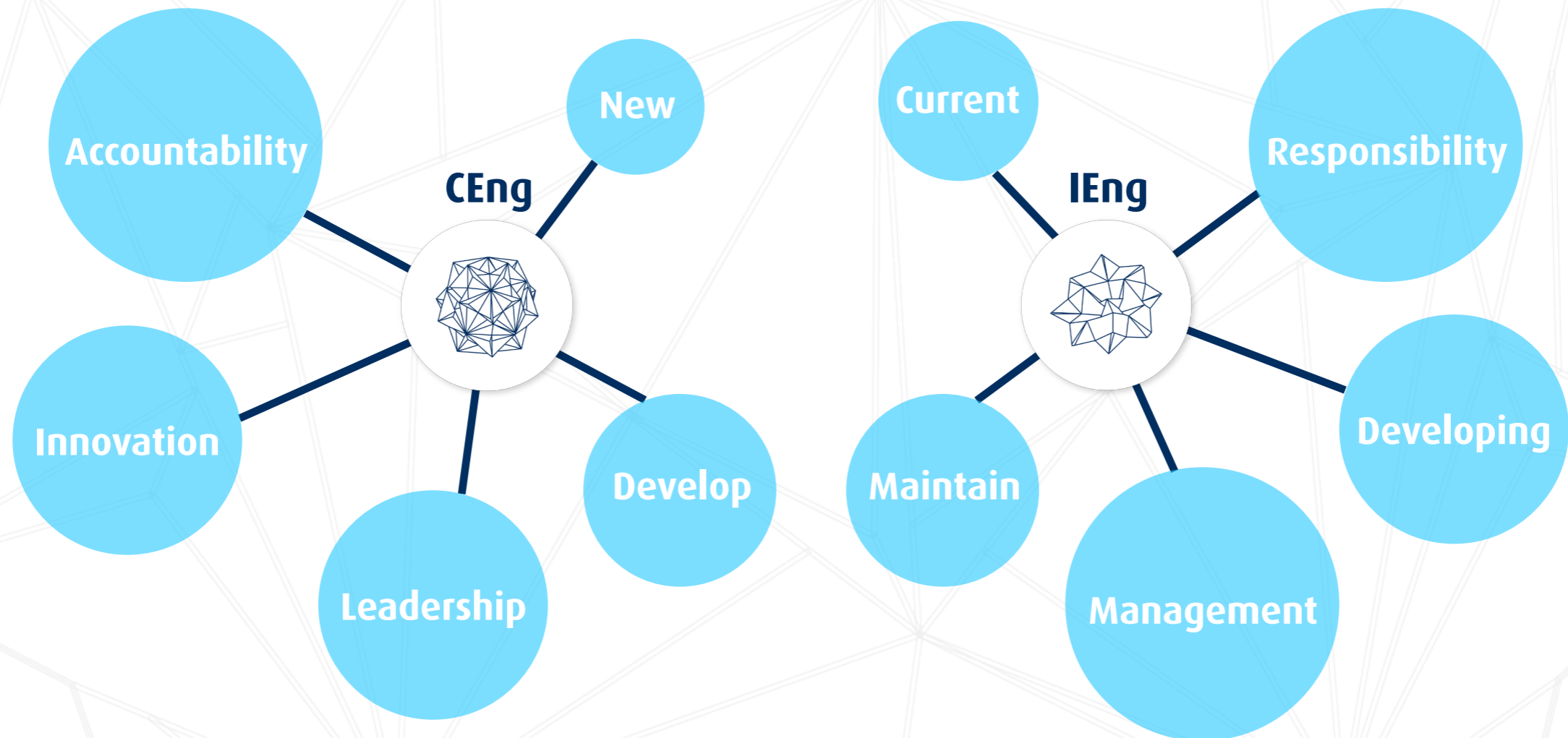
Helps to create an innovative learned society and ensure the development of the engineering profession.



THE DIFFERENCES BETWEEN CHARTERED ENGINEER AND INCORPORATED ENGINEER



Keywords highlighting some differences.





THE DIFFERENCES BETWEEN CHARTERED ENGINEER AND INCORPORATED ENGINEER



CEng

Develop solutions to engineering problems using new or existing technologies, through innovation, creativity and change. They may also have technical accountability for complex systems with significant levels of risk

Chartered Engineers are able to demonstrate:

- The theoretical knowledge to solve problems in new technologies and develop new analytical techniques.
- Successful application of the knowledge to deliver innovative products and services and/or take technical responsibility for complex engineering systems.
- Accountability for project, finance and personnel management and managing trade-offs between technical and socio-economic factors.
- Skill sets necessary to develop other technical staff.
- Effective interpersonal skills in communicating technical matters.



IEng

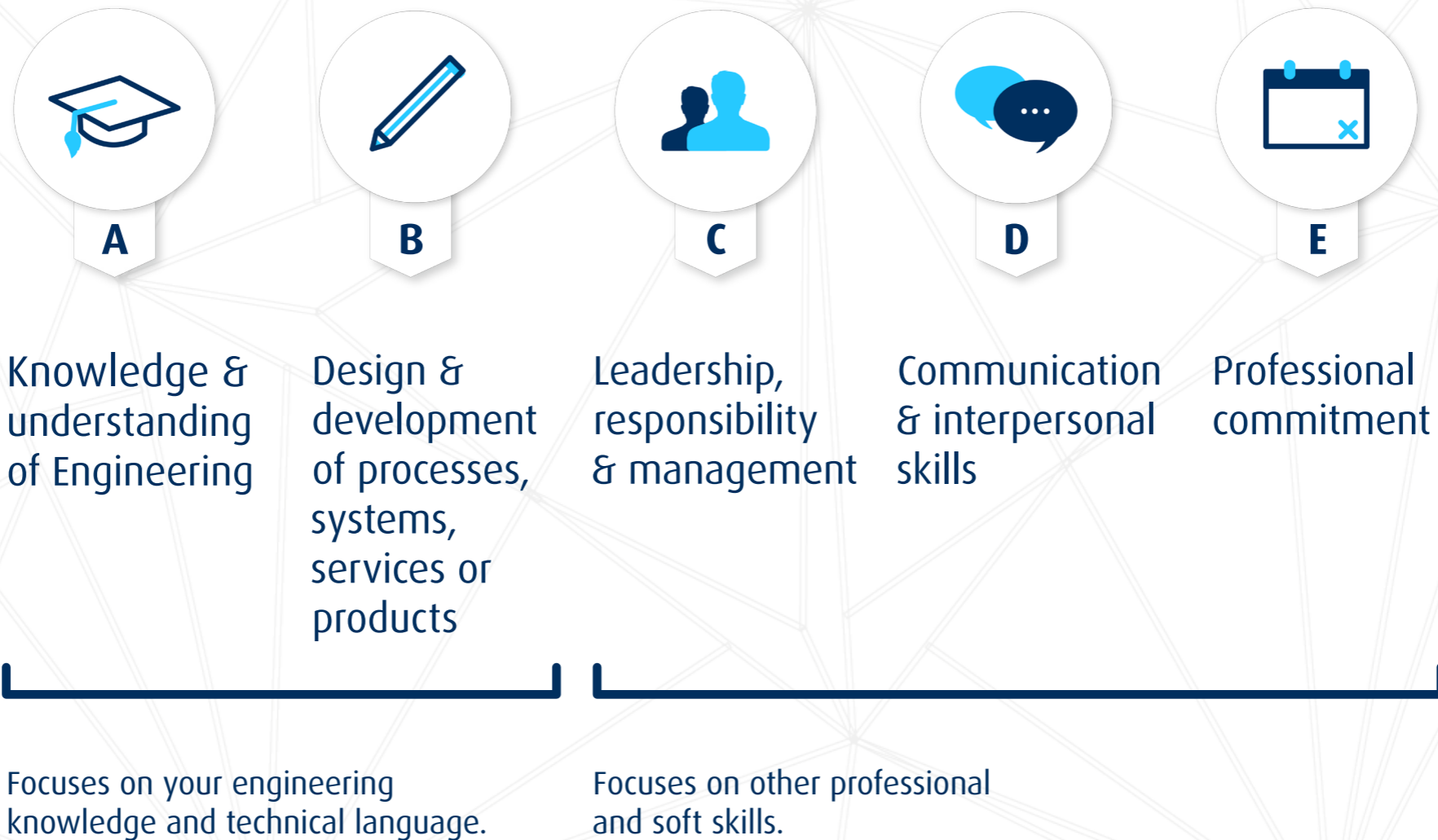
Maintain and manage applications of current and developing technology, and may undertake engineering design, development, manufacture, construction and operation.

Incorporated Engineers are able to demonstrate:

- The theoretical knowledge to solve problems in developed technologies using well proven analytical techniques.
- Successful application of their knowledge to deliver engineering projects or services using established technologies and methods.
- Responsibility for project and financial planning and management together with some responsibility for leading and developing other professional staff.
- Effective interpersonal skills in communicating technical matters.
- Commitment to professional engineering values.

THE 5 COMPETENCES

The requirements for each competence differ for both CEng and IEng.





ASSESSMENT AND APPLICATION

Each stage must be passed before the candidate can proceed to the next stage.



CV

A comprehensive English CV must be submitted for review.



Portfolio

The portfolio must be completed in accordance with the NL-Spec, which consists of the 5 competences. Relevant evidence can be submitted alongside this.



Interview

The assessment interview lasts for 90 minutes and is conducted by two experienced engineers. The candidate must prepare a 10 minute presentation on one or two projects. Questions will be asked on both the presentation and portfolio.



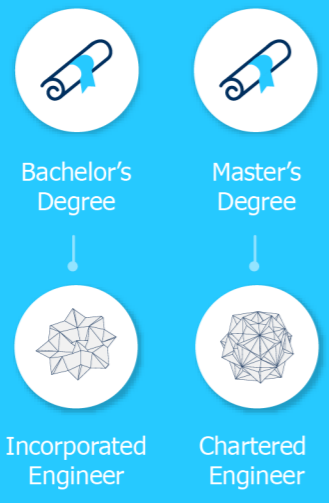
Qualified

Upon qualification, the newly Chartered or Incorporated Engineer will appear on the Chartered Engineer Register. They will receive a certificate and can use the professional title of CEng or IEng. They must carry out CPD in order to maintain the qualification.



Formal Education

A degree in technology, engineering or a related science is essential. This should be on a University level (WO) or from a University of Applied Science (HBO).



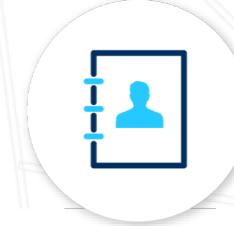
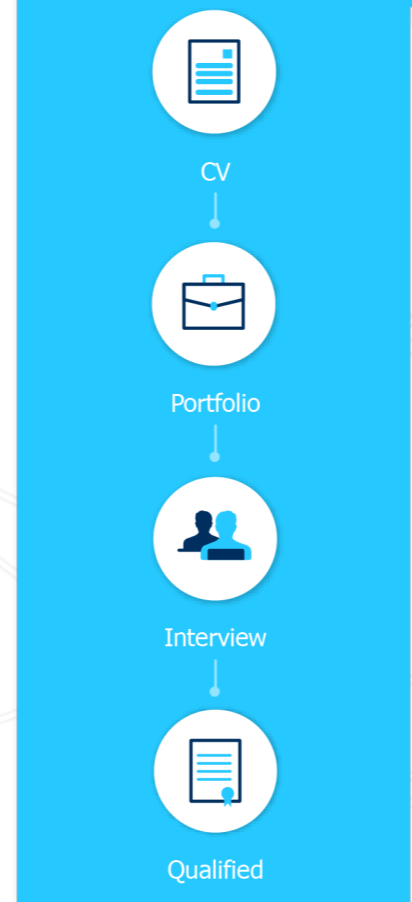
IPD

Initial Professional Development is where candidates will develop the competences expected of a professional engineer. Candidates must have at least 5 years experience.



Assessment

There are 5 competences that the candidate must achieve. These require the right level of knowledge, understanding, experience, commitment and a professional attitude.



CPD

Continuing Professional Development is essential in order to maintain Chartership. The aim of CPD is to continuously challenge, develop and improve technical and behavioural competences.



THE CHARTERSHIP PROCESS



CONTINUAL PROFESSIONAL DEVELOPMENT (CPD)



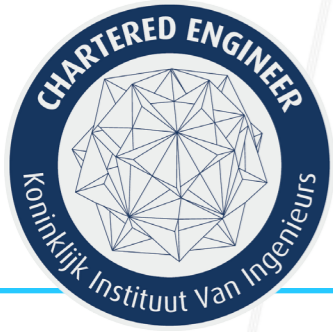
The aim of CPD is to continuously challenge, develop and improve technical and behavioural competences of Chartered and Incorporated engineers.

A FEW EXAMPLES OF CPD

- Completing an approved course or training.
- Visiting approved industry symposia or congress.
- Participating in joint industry projects.
- Participating in communities of practice.
- Participating in peer review sessions.
- Writing peer reviewed or industry acknowledged articles.
- Obtaining a patent.
- Participating in a scientific research project, when this is not the main job.
- Delivering lectures in a topic of your field of expertise.
- Acting as a mentor to a more junior engineer.
- Interacting with students of all ages with the aim of raising their interest and knowledge of engineering.



CPD is personal for each individual Engineer. It can be both formal and non-formal.



CONTINUAL PROFESSIONAL DEVELOPMENT (CPD)



The aim of CPD is to continuously challenge, develop and improve technical and behavioural competences of Chartered and Incorporated engineers.



Helps engineers to plan, develop and reach career goals.



Stay relevant and up to date with the latest innovations and engineering knowledge.



Broaden knowledge of other disciplines while also developing personal specialism.



Proof of an engineer's commitment and competence to maintain Chartered or Incorporated status.

CPD REQUIREMENTS

The requirement of CPD establishes the commitment of the engineer and maintains quality standards.

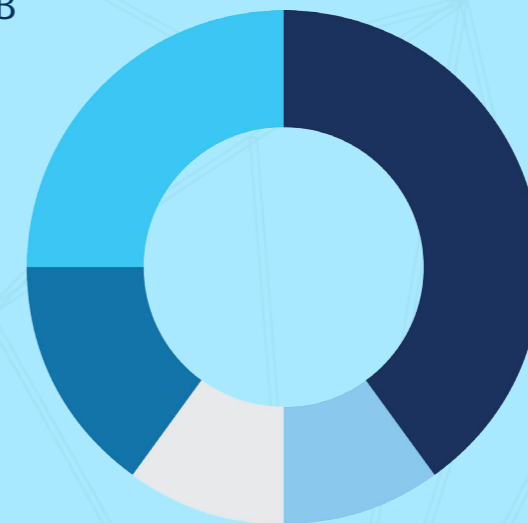


Each CPD period will last for **2 years**. The required amount of hours must be completed within this timeframe.



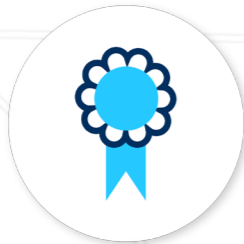
A minimum of **100 CPD hours** must be documented. They should cover all five competency areas outlined in the NL-SPEC.

- 40 hours**
Competence A & B
- 10 hours**
Competence C
- 10 hours**
Competence D
- 15 hours**
Competence E
- 25 hours**
Any of the 5 Competences





THE CHARTERED ENGINEER STRUCTURE IN THE NETHERLANDS



Bestowment
of Chartered
status is
exclusive to
KIVI.



We are local
and accessible.



All
engineering
disciplines are
represented at
KIVI.



KIVI can help
and guide
engineers
through the
whole process.



COSTS

There are two costs in applying for Chartership.
You must also be a member of KIVI.



Application Fee
€270

One time payment when you first apply.



Annual Chartership Fee
€120

Annual fee to be paid after the first year.



THANK YOU!

If you are interested in applying for Chartered status or would like more information please do not hesitate to contact us.



Email us at:
chartered@kivi.nl