

Welcome - starting at 8.30



Chartership competencies Part 1 | Breakfast webinar series

Jack Southon

# Welcome

- ▶ About Me and the other Presenters

- ▶ About the Branch and Group

- ▶ Our aim this scheme

*To encourage more of our experienced Graduate Members and Colleagues  
to pursue their Chartered Membership.*

# The Scheme

- ▶ What it is:
  - ▶ A voluntary scheme
  - ▶ Run by the branch
  - ▶ Encouragement and support
  - ▶ For experienced colleagues seeking Chartered Membership
  - ▶ Equipping applicants with the knowledge and the confidence
  - ▶ Focused on the application process
  - ▶ A support network
- ▶ What it isn't
  - ▶ No guarantee of membership after completing the programme
  - ▶ Some self assembly required

# The Scheme

- ▶ A word of caution
  - ▶ There are some logistical challenges in supporting everyone dialled-in individually
  - ▶ We are working with CIWEM HQ to resolve these - notably the requirement for mentors and sponsors and linking to the revised Fast Track to Membership scheme
  - ▶ The possibility that you all submit at once in August!

# The Content

- ▶ 12 week programme
- ▶ Need to sign up each week (in-advanced) to be sent the link to a webinar focusing on one of the mandatory competencies.
- ▶ The aim of the webinars will be to support candidates so that you are ready to write-up that week's competence or identify areas for personal development.
- ▶ We hope to run virtual sessions in a CIWEM forum to help foster a community of applicants to share ideas of how you have addressed that week's competency and to encourage each other in progressing their application.

# 12 weeks

- ▶ 12 weeks - 14 competencies? How does that work ?

|                        |    |                       |    |
|------------------------|----|-----------------------|----|
| April 22 <sup>nd</sup> | A1 | June 3 <sup>rd</sup>  | C1 |
| April 29 <sup>th</sup> | A2 | June 10 <sup>th</sup> | C2 |
| May 6 <sup>th</sup>    | B1 | June 17 <sup>th</sup> | C3 |
| May 13 <sup>th</sup>   | B2 | June 24 <sup>th</sup> | C4 |
| May 20 <sup>th</sup>   | B3 | July 1 <sup>st</sup>  | D2 |
| May 27 <sup>th</sup>   | B4 | July 8 <sup>th</sup>  | E1 |

- ▶ Note on D1 and E2 - you are on your own for these ones!

# What about CEng, CEnv, CSci ?

- ▶ Where relevant we will flag up common ground for CEng, CEnv, CSci competencies within the information sheet but do not currently have plans for separate or additional information sheets to cover these off

(Although feedback on this approach would be welcome)

# What we need from you...

- ▶ To opt in -
  - ▶ If you have not already done so then please book next week's and subsequent webinars via CIWEM Events page so you get the connection details
- ▶ To participate
  - ▶ To engage with the activities
  - ▶ To participate in the forum (once available)
  - ▶ To follow it through.
- ▶ To feedback
  - ▶ The materials for this scheme are always being developed for future use so regular feedback on the information sheets, the webinar sessions or any other aspect of the scheme is welcome at any point.

# Format

- ▶ Introduce competency
- ▶ Set out Key Questions
- ▶ Give some example responses
- ▶ Set some activities for today
- ▶ Set some activities for this week
- ▶ Cross referencing for other accreditations

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the page, creating a modern, layered effect.

A1

Knowledge of wider environmental issues and trends

# A1 - Key Questions

- ▶ **Knowledge of wider environmental issues and trends (*which may be related to, but not constrained, to your area of expertise*)**
- ▶ You should be able to demonstrate that you have a breadth of environmental knowledge and also have an awareness of developments/future issues in the sector in which you operate. You should be able to demonstrate a relevant understanding of trends in legislation/local/national/international directives, financial and societal drivers within your industry.
  - ▶ Do you understand what the main issues and environmental drivers are in your industry or in an area of interest?
  - ▶ Do you understand the wider context of your position in the environmental sector and the relationship to wider environmental issues?
  - ▶ What knowledge do you require in your day to day role?
  - ▶ Where do you find the environmental information you require?

# A1 - Key Questions

- ▶ Do you read/have an interest outside of your discipline and how do you keep up to date with such topics?
- ▶ What environmental legislation drives the business of your employer or clients?
- ▶ How has your employer or clients developed their businesses to meet the challenges or opportunities presented by evolving technology and environmental challenges?
- ▶ Can you explain and have a personal view on an international or national current environmental issue outside your core work area?

# A1 - Examples - Policy

- ▶ I keep abreast of key policy and social changes affecting my work and the wider sector and try to link these to my projects wherever possible. For example my knowledge and understanding of the Flood and Water Management Act has greatly supported the work I do on Local Flood Risk Management Plans. The Water Framework Directive has influenced my understanding of the analysis I undertake for the effects of removal of in-channel features.
- ▶ The Water Industry is principally governed by the Water Industry Act, regulated by OFWAT (The Water Service Regulation Authority) and must satisfy the Drinking Water Inspectorate (DWI) and Environment Agency (EA) requirements.
- ▶ Work on Ofwat Price Review or Water Resource Management Plan

# A1 -Examples - Monitoring

- ▶ I maintain my knowledge of wider environmental issues and trends through continuous professional development. I frequently make use of webinar and evening seminar events to allow me to maximise the range and breadth of my knowledge and access events that cover wider themes outside of my immediate working area including ecology, transport infrastructure, sewerage treatment operations, and engineering, while minimising the environmental impact of these activities.
- ▶ Highlight your membership of any other relevant professional bodies (e.g. the Institute of Environmental Management and Assessment (IEMA); the Institution of Environmental Sciences etc), including attendance at events, webinars etc.
- ▶ Training courses attended - give some specific examples.
- ▶ I am fortunate enough to have access to a wide range of environmental publications such as Journals and proceedings from the Royal Geographical Society, CIWEM and the ICE. I also monitor a number of industry magazines such as GIS professional, Water and Waste Water Treatment and Geomatics World which allows me to support my knowledge, understanding, and skills with independent reading.

# A1 - Examples - Trends

- ▶ The main issue within my sector is climate change and the resulting intense periods of rainfall during the winter and drier summers. These lead to greater risks of flooding and water scarcity in the water-stressed areas, particularly in the south of England.
- ▶ Improved data is available via new technologies (real time data loggers) to collect accurate information Smart leakage monitoring and satellite and drone leakage detection is helping target leakage.
- ▶ The water industry is addressing mitigation by reducing energy from fossil fuels, generating their own energy (biogas, thermal hydrolysis) and through energy efficiency (pump, network optimisation). Adaptation is being addressed by items such as Water Resource Management plans, managing and addressing the risk to assets and building resilience into the water and wastewater network.

# Activity - Today

- ▶ Discuss with your peers (or on the forum once set up):
  - ▶ What are the main issues and environmental drivers in your industry?
  - ▶ How does the work that you do relate to other disciplines or areas?
  - ▶ What knowledge you require in your day-to-day role and where you go to obtain this knowledge.
  - ▶ How does the work you do take into consideration and respond to environmental trends (e.g. climate change)?
  - ▶ How has your employer or clients developed their businesses to meet the challenges or opportunities presented by evolving technology and environmental challenges?

# Activity - this week

- ▶ Spend 15 mins answering the 'key questions' discussed today
- ▶ Prepare 5 bullet points to evidence your knowledge of wider environmental issues and trends, using the examples given today and your answers to today's activity

# Tips

- Always write in the first person – CIWEM are only interested in what you have done, not what your team has done.
- Be honest about what you have contributed to a project
- Understand why you are doing a particular task – what is the bigger picture?
- Be concise
- Remember what you have written
- Don't limit yourself to experience gained with your current employer or paid employment

# Cross referencing - other accreditations

- ▶ (CEnv, A1)

Have underpinning knowledge of sustainable development principles in the management of the environment.

- ▶ (CEng, A1)

Maintain and extend a sound theoretical approach in enabling the introduction and exploitation of new and advancing technology and other relevant developments.

- ▶ (CSci, A1)

Use a combination of general knowledge, understanding and skills to optimise and engage in the application of existing and emerging science and technology.

**Save the date**

**Next call**

**April 29<sup>th</sup> A2**

**Ability to develop strategies or plans to  
address changes in your sector**

**CIWEM** Chartered Institution of  
Water and Environmental  
Management

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