

# A Contractor's Expectation of Graduates Engineers

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So what are we looking for?

**“When faced with a problem would he/she make the right decision .....**”

# What makes a civil engineer?

- Technical competence
- Practical competence
- Good communicator
- Problem solver
- Understands money
- Holistic approach


# Technical competence

- Engineering knowledge
- Core engineering principles
- Engineer solutions – not “tick boxes”
- Concept of stability and modes of failure
- An evidence based approach to problem solving

# Practical competence

- How things are constructed
- Health & safety within the design process (CDM)
- Temporary works
- Practical experience

# Good communicator

- Communicate with confidence
  - Verbal and written communication
  - Create & use sketches
  - Presenter
  - Grammatically correct English
  - Diversity
  - Collaborative approach
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# Understanding money

- Why do quantity surveyors take some of the top jobs in contracting?
- Contracts – definition of risk
- Simple cost vs value
- Sources of funding

# What can you do to help us?

- Sow the seeds that employers can grow....
- Graduates must have a questioning mind
- No good doing something just because someone says so
- Form their own views & opinions
- Challenge the status quo, constructively.....
- More collaboration with contractors

# As an ICE Reviewer – what do I expect?

- Someone who is a professional, articulate engineer who inspires me with the confidence that they can represent their own organisation, the industry and the profession in technical and public forums both now and in the future.