




**University of Bahrain (UoB)  
College of Engineering**

**Engineering Council UK,   
Postgraduate Diploma Examinations  
at UoB and CEng Registration**



**University of Bahrain's City and Guilds,  Center  
for Engineering Council UK,  Examinations**

# 1. How to obtain a Postgraduate Diploma through the Engineering Council UK Examinations?

- ❖ **Candidates must hold a B. Sc. degree in an engineering discipline**
- ❖ **Candidates are required to complete successfully the following:**
  - *One compulsory paper (Level 7):* Advanced engineering analysis
  - *Successful submission of a project report (Level 7) to include management principles*
  - *One technical paper at an advanced level (Level 7) chosen from the following five units:*
    - ✓ The analysis of compressible fluid flow
    - ✓ Computational mechanics using finite element method
    - ✓ Advanced telecommunications systems engineering
    - ✓ The technology of advanced manufacturing processes
    - ✓ High performance computer systems engineering
  - *Two further papers (Level 6) chosen from the following units:*

✓ Applied thermodynamics	✓ The analysis of heat and mass transfer
✓ The analysis of the mechanics of fluids*	✓ Chemical thermodynamics, kinetics and reactor design
✓ Hydraulics and hydrology*	✓ Separation processes in chemical engineering
✓ The internal environmental design of buildings	✓ Properties of materials for engineering applications
✓ Mechanics of solids	✓ The analysis of engineering structures
✓ The design of engineering structures	✓ Design and operation of marine vehicles
✓ Geotechnical engineering	✓ Electrical machines and drives

- ✓ Electrical energy systems
  - ✓ Quality and reliability engineering
  - ✓ Analysis and design of manufacturing systems<sup>#</sup>
  - ✓ The management of engineering enterprises
  - ✓ Dynamics of mechanical systems
  - ✓ Control systems engineering
  - ✓ Software engineering
  - ✓ Advanced mathematical techniques for engineering applications
  - ✓ Electronic systems engineering
  - ✓ Telecommunication systems engineering
  - ✓ The management of construction projects<sup>#</sup>
  - ✓ Computer systems engineering
  - ✓ The technology of manufacturing processes
  - ✓ Information systems engineering
  - ✓ Software for embedded systems
- \* Candidates may take either of these units but not both
- # Candidates may take either of these units but not both

**Note – syllabuses are available from the web: ([www.cityandguilds.com/ecukexams](http://www.cityandguilds.com/ecukexams)) and past papers upon request and for a small fee.**

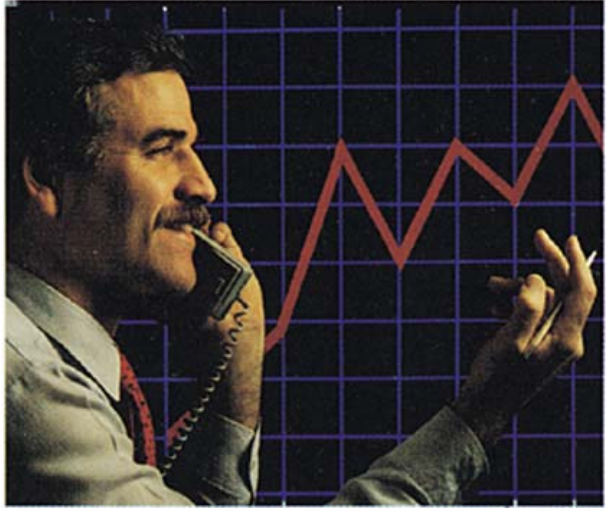
## **2. How much will it cost?**

Fees are charged for registration and for entry to each subject. The registration fee is BD 90 and it is BD 100 for entry to level 6 subjects. Level 7 subjects entry fee is BD 110 and the fee for the project exam is BD 350.



### **3. When and where examinations are held?**

The examinations are held annually in May in the United Kingdom, the Republic of Ireland and overseas. Starting from May 2008, registered applicants will have the opportunity to take the exams at the University of Bahrain.



### **4. Is there a time limit for the completion of the Postgraduate Diploma?**

There is no time limit for the completion of the Postgraduate Diploma or any restriction on the number of attempts that can be made. Candidates may repeat units in order to improve on a grade previously awarded. However, there is a time limit set within the project unit.

### **5. What are Chartered Engineers?**

Chartered Engineers are the best of the engineering profession. They are motivated individuals who combine a capacity for leadership with a talent for problem solving through creativity and innovation, using new or established technologies.

### **6. What are the Benefits of Being a Chartered Engineer?**

The letter "CEng" after your name bring important benefits, including:

- ❖ Higher earning potential
- ❖ Improved career prospects
- ❖ Greater influence within your organization and industry
- ❖ Enhanced professional status
- ❖ Recognition of your expertise and hard work
- ❖ Access to life-long learning resources

## 7. How to Become a Chartered Engineer?

To register as a Chartered Engineer, it is required to be academically qualified by holding a **Postgraduate Diploma** in your field of expertise. It is also required to be a member of a UK professional engineering institution that is licensed to assess the applicants for registration. The engineering institution may impose restrictions on which units should be taken and/or set a time limit for their completion.

Candidates should seek the advice of the most appropriate engineering institution for other professional requirements. A list of these professional institutions is given below:

- ✓ **British Computer Society**  
[www.bcs.org](http://www.bcs.org)
- ✓ **Institute of Civil Engineers**  
[www.ice.org.uk](http://www.ice.org.uk)
- ✓ **Institute of Physics and Engineering in Medicine**  
[www.ipem.ac.uk](http://www.ipem.ac.uk)
- ✓ **Chartered Institution of Building Services Engineers**  
[www.cibse.org](http://www.cibse.org)
- ✓ **Institute of Plumbing and Heating Engineering**  
[www.iphe.org.uk](http://www.iphe.org.uk)
- ✓ **Institution of Fire Engineers**  
[www.ife.org.uk](http://www.ife.org.uk)
- ✓ **Institute of Acoustics**  
[www.ioa.org.uk](http://www.ioa.org.uk)
- ✓ **Welding Institute**  
[www.twi.co.uk/professional](http://www.twi.co.uk/professional)
- ✓ **Institution of Railway Signal Engineers**  
[www.irse.org](http://www.irse.org)
- ✓ **Institution of Agricultural Engineers**  
[www.iagre.org](http://www.iagre.org)
- ✓ **Institute of the Motor Industry**  
[www.motor.org.uk](http://www.motor.org.uk)
- ✓ **Institution of Nuclear Engineers**  
[www.inuce.org.uk](http://www.inuce.org.uk)
- ✓ **British Institute of Non-Destructive Testing**  
[www.bindt.org](http://www.bindt.org)
- ✓ **Institution of Gas Engineers and Managers**  
[www.igem.org.uk](http://www.igem.org.uk)
- ✓ **Institution of Royal Engineers**  
[www.instre.org.uk](http://www.instre.org.uk)
- ✓ **Energy Institute**  
[www.energyinst.org.uk](http://www.energyinst.org.uk)
- ✓ **Institute of Physics**  
[www.iop.org](http://www.iop.org)
- ✓ **Institute of Highway Incorporated Engineers**  
[www.ihie.org.uk](http://www.ihie.org.uk)
- ✓ **Institution of Structural Engineers**  
[www.istructe.org.uk](http://www.istructe.org.uk)
- ✓ **Institution of Highways & Transportation**  
[www.iht.org](http://www.iht.org)

- ✓ **Institution of Water Officers**  
www.iwo.org.uk
- ✓ **Institute of Cast Metals Engineers**  
www.icme.org.uk
- ✓ **Institution of Chemical Engineers**  
www.icheme.org
- ✓ **Royal Institution of Naval Architects**  
www.rina.org.uk
- ✓ **Institute of Materials, Minerals and Mining**  
www.iom3.org
- ✓ **Institution of Engineering and Technology**  
www.theiet.org
- ✓ **Society of Operations Engineers**  
www.soe.org.uk
- ✓ **Institution of Mechanical Engineers**  
www.imeche.org.uk
- ✓ **Institution of Lighting Engineers**  
www.ile.org.uk
- ✓ **Royal Aeronautical Society**  
www.aerosociety.com
- ✓ **Institute of Marine Engineering, Science and Technology**  
www.imarest.org
- ✓ **Institute of Healthcare Engineering and Estate Management**  
www.iheem.org.uk
- ✓ **Society of Environmental Engineers**  
www.environmental.org.uk
- ✓ **Institute of Measurement and Control**  
www.instmc.org.uk
- ✓ **Institution of Engineering Designers**  
www.ied.org.uk
- ✓ **Chartered Institution of Water and Environmental Management**  
www.ciwem.org

**For further information, please contact:**

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*<http://aao.uob.edu.bh/Examinations/Examinations.aspx>*

# Engineering Council Registration Form

Name: \_\_\_\_\_

Birth Date: \_\_\_\_\_

Place of Birth: \_\_\_\_\_

Nationality: \_\_\_\_\_

CPR or Driving License#: \_\_\_\_\_

Country of Issue: \_\_\_\_\_

Position: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Work Address: \_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Degree & Specialization: \_\_\_\_\_

University: \_\_\_\_\_

- ❖ The fee for registration in Engineering Council's Postgraduate Diploma is BD 90.
- ❖ Examinations to be taken this May.

<i>Unit</i>	<i>Tick here</i>	<i>BD Amount</i>
<b><i>Compulsory unit, level 7, BD 110:</i></b> Advanced engineering analysis		
<b><i>One unit form these 5, level 7, BD 110 each:</i></b> The analysis of compressible fluid flow Computational mechanics using finite element method Advanced telecommunications systems engineering The technology of advanced manufacturing processes High performance computer systems engineering		
<b><i>Compulsory unit, level 7, BD 350:</i></b> Project report		
<b><i>One unit from level 6, BD 100 each:</i></b> <b><i>please specify the unit:</i></b> _____ _____		
<b><i>One unit from level 6, BD 100 each:</i></b> <b><i>please specify the unit:</i></b> _____ _____		
<b><i>Do you want to register for a short course?</i></b> <b><i><u>BD 350 for 40 hour short course</u></i></b> <b><i>please specify the unit(s):</i></b> _____ _____		
<b><i>Total, BD:</i></b>		

## **Accreditation and Assessment Office (AAO)**

College of Engineering

University of Bahrain

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Kingdom of Bahrain

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Fax: +973 1787 6984