

Lighting Education

Certificate & Advanced Certificate Courses





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LIF Certificate

This course provides a basic level of education in lighting on a national level for people involved in the maintenance, sale and specification of lighting equipment.

Course Aims

The aims of the course are to provide:

- a) An understanding of lighting units and terminology.
- b) An understanding of the concepts of interior lighting design
- c) A working knowledge of light sources, their characteristics and applications.
- d) An understanding of the



LIF Training Manager
John Hugill

logical steps in interior lighting design and the knowledge to complete the design of an installation to modern standards.

Entry Requirements

There are no specific entry requirements but the applicant should be working in some aspect of lighting relevant to the course. It would be of assistance to the understanding of the course if the entrant has studied GCSE/O-Level Mathematics or Science. This is not a prerequisite, but an indication of the course entry level.



Recognition of the Certificate

The course is designed to enable the student to receive a basic education in lighting and is recognised as such by the lighting industry.

Apart from enabling the student to progress to the LIF Advanced Modules, the award of the Certificate is also recognised by SLL (The Society of Light and Lighting) as partial fulfilment of the requirements for the award of the SLL Lighting Diploma.

Course Timetable

Week	
1	Home study of lesson 1
2	Two days of seminars covering lessons 1, 2 & 3
3 - 6	Home study of lessons 1, 2
7	One seminar day covering lesson 4 & a workshop day
8 - 9	Home study of lessons 3 & 4
10 - 13	Completion of the lighting design exercise
13 - 14	Assessment of the design exercise

Course Content

Lesson 1	Units, fundamentals and calculations
Lesson 2	Photometric data, light control, measurement of illuminance, luminaires
Lesson 3	Light production, lamps and circuits
Lesson 4	Lighting design, use of daylight

Course Operation

The course duration is approximately 3 months and most of the study is performed at home. The lesson content is discussed at a two-day session of tutorials followed by a further two day session consisting of a tutorial day and design workshop day, all held at a suitable location. Project assessment is by attendance at an oral examination on the design exercise.

The course of study is divided into mathematics revision and four lessons. The mathematics revision and the first lesson are sent to the student for home study before the first two day tutorial session.

Design Workshop

The importance of hands on experience is recognised by devoting a complete day to the design workshop, where each student works on a design project, using the CIBSE. and BS. requirements to produce the lighting design from the initial brief to final drawing. This normally includes emergency lighting, daylight, glare and energy consideration. This is assisted by discussions with the lecturers and by critical appraisal of the proposals.

Assessment

The ability of each student is assessed by the satisfactory completion of 3 test papers based on lessons 1-3, the satisfactory presentation of the interior lighting design of a building and an oral examination on the performance of the design.

Award of the Certificate

The Certificate is only awarded to students who satisfy all elements of the course.

Personal Tutoring

Where possible, students may need to obtain advice from colleagues. Contact with the Training Manager is also available throughout the course.

Cost

The course can only be taken as a complete entity and the fee includes: 4 days of seminars, inclusive of lunch and refreshments, lesson notes, test papers and model answers, a course text book and specifications and drawings for the lighting design exercise. Assessment and the award certificate

Note: Accommodation is not included.



LIF Advanced Certificate

The advanced certificate course consists of three modules which are self contained units, taken and assessed separately.

Each of the three modules of the Advanced Certificate course consists of a distance learning element, a single session of 3 days duration, and a design project that is completed at home. The project is assessed by means of an oral examination.

The cost of each module includes lesson notes, specifications and drawings for the design exercise, oral assessment of the design

project, the award certificate and refreshments and lunch on the seminar days.

Award of the Advanced Certificate

To qualify for the award it is necessary to pass TWO of the three modules. It is not necessary to pass both modules in the same year as the modules are on-going and may be taken in different years.

An advanced supplementary certificate is awarded on the successful completion of the third module.

Course Operation

The course duration is approximately 3 months and most of the study is performed at home. The lesson content is discussed at a two-day session of tutorials and a workshop/ laboratory day which are held at a suitable location. Project assessment is by attendance at an oral examination on the design exercise.

Entry Requirements

All entrants should have a lighting knowledge up to the standard expected of a person who has successfully completed the LIF Certificate course.



Dr John Frost and students



Modules Offered

EXTERIOR LIGHTING

Lesson 1

Fundamentals: Calculation of illuminance, luminance and flux relevant to outdoor lighting design.

Lesson 2

Floodlighting: Luminaires and lamps and their application, installation design for building and area lighting.

Lesson 3

Road Lighting: Luminaire characteristics, principles of road lighting design to relevant BS standards.

INTERIOR LIGHTING

Lesson 1

Calculation of illuminance due to linear sources, comparison of aspect factor and point source element methods.

Lesson 2

Distribution and transfer factors and their use in the calculation of flux and average illuminance on all room surfaces, with requirements for VDT areas.

Lesson 3

Daylight – availability, daylight factors, illuminance distribution and magnitude. Use in energy conservation.

Lesson 4

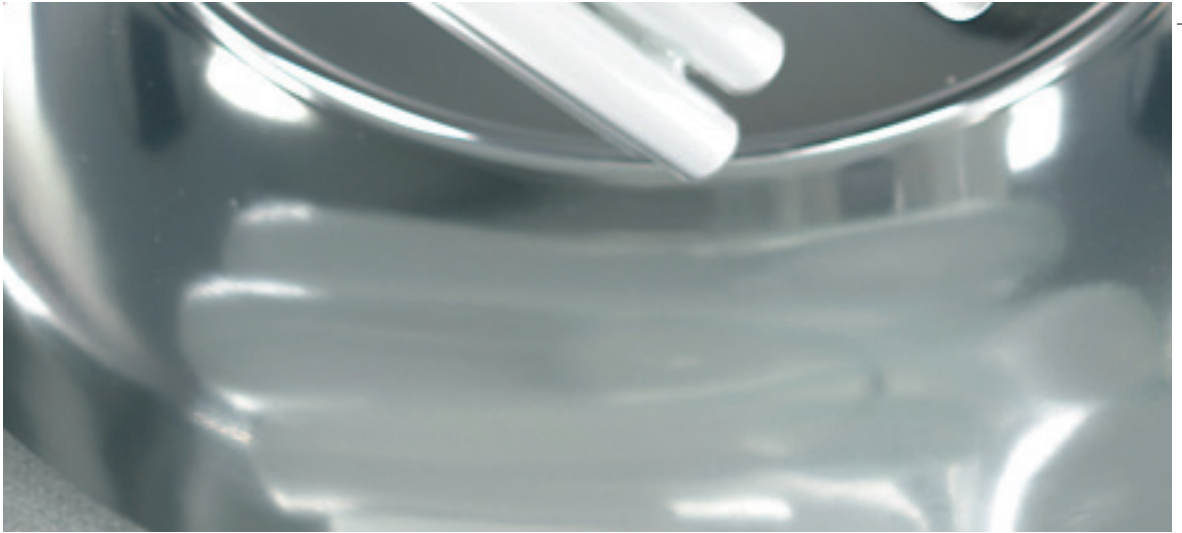
Installation design – design of uplighter installations, installations for VDT areas, hospital ward lighting and conservation areas plus review of CIBSE Lighting Guides.

LIGHT MEASUREMENT

The course consists of:

One day of laboratory practical work including the measurement of the performance of a luminaire and the production of its photometric data, the measurement of illuminance distribution, photocell characteristics and daylight factors.

Two days of seminars on principles of photometry, measurement of flux and intensity distribution, calculation of flux, LOR, SHR values and distribution factors from intensity data; derivation of UF tables and LG3 luminance values.



Awards

LIF Certificate Course

Outstanding Student of the Year Award

An award is donated by Abacus Lighting each year to the outstanding student on the LIF Certificate Course, all students are considered for the award and up to 6 students are selected for final consideration by the judges. The name of the winning student is entered on a plaque displaying the ceremonial Wilkinson sword in the LIF Council Chamber. The winning student receives a certificate and £1,000, half of which is to be spent on the furtherance of his or her lighting career. All students on the course are eligible for this award.



Advanced Certificate Course

The Holophane David Currie Award



The value of the Advanced Certificate Course is recognised by the lighting

industry in the form of the Holophane David Currie Award. This award is donated by Holophane Europe once every two years and commemorates David Currie who was a training enthusiast at Holophane. The outstanding student of the Advanced Certificate Course wins £1,000 with the award trophy.





Recognition & Membership

SLL Lighting Diploma

The courses are recognised by SLL (The Society of Light and Lighting) and the award of the LIF Certificate combined with passes at credit level (grade B and above) in ALL THREE MODULES OF THE ADVANCED CERTIFICATE is considered to be equivalent to the normal BTEC Lighting Units required for the award of the SLL Lighting Diploma. Students who have completed the LIF Courses and obtained the level of passes as above and have five years relevant experience in light and lighting are eligible to apply for the SLL Lighting Diploma.

ILE

The Institution of Lighting Engineers has also recognised the course standard and a person who has passed the ADVANCED CERTIFICATE COURSE (including the Exterior Lighting module) is eligible to apply to become an Affiliate of the Institution.

Membership of the Society of Light & Lighting

The LIF courses are recognised

by The Society of Light and Lighting of the CIBSE and students who are on or have completed the course are eligible to apply for membership of the Society as follows:

Student Member

A student attending any of the LIF courses.

Associate Member

A person who has completed the LIF Advanced Certificate course with passes in ALL THREE MODULES, at credit level (grade B and above) and has two years relevant experience in light and lighting. Associate members of the Society are able to use the phrase 'Associate Member of The Society of Light and Lighting' on stationery.

Member

A person who has completed the LIF Advanced Certificate course with passes in ALL THREE MODULES at credit level (grade B and above) and has five years relevant experience in light and lighting.

Or A person who has completed the LIF Advanced Certificate (a minimum of 2 of the 3 modules) and has seven years relevant

experience in light and lighting. This route to membership will not apply after 2006.

Members of the Society are able to use the letters MSLL on their stationery.

Continuous Professional Development

CPD certificates are awarded to all students for both the LIF Certificate and Advanced courses.





LIF Certificate Courses

take place each year at a Midlands venue in January and London in September.

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Advanced Certificate Modules

take place each year at a London venue in May (Interior Lighting), June (Light Measurement) and September (Exterior Lighting).

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