

31st August 2016

Course upgrade details F01.1

## **COURSE DETAILS**

ECSSA in conjunction with PCCE Training are offering a  
**One Day Review Course  
on Emergency Lighting (IS3217:2013)**

See [www.ecssa.ie](http://www.ecssa.ie) for **Dates & Venues**

Fees: €180 for ECSSA Members / €200 – Non Members  
(Lunch Included)

1. **Course Developer:** PCCE Training (Paul Condron Consulting Engineer Ltd)

2. **Tutor:** Paul Condron, Chartered Engineer, Registered Consulting Engineer

3. **Overview:**

I.S.3217 the Irish Standard for Emergency Lighting was updated after almost 20 years and released in 2008. The new Standard contained many changes but also a number of problems in several areas.

The latest Revision I.S.3217:2013 which was released in December 2013 is a significant improvement on the 2008 standard and reflects the improvements in technology; the increase in relevant reference standards; and improvements in Emergency Lighting techniques.

4. **Course Aim:**

This 1-day Review Course is designed to update existing users of the 1989 and 2008 Standards to the extent that will allow them to continue with their activities in relation to such systems under the new requirements of the Standard and to understand the principles and application of each section of the Standard.

The modules will introduce attendees to the principles of Lighting and Emergency Lighting design to the extent needed to determine and apply the requirements of the Standard.

The course is also designed and presented to allow Attendees to assess – and develop - their competence to carry out any or all of the following in accordance with the requirements and specifications of Irish Legislation and the Irish National Standard I.S.3217:2013:

- > Design,
- > Install,
- > Commission,
- > Service,
- > Maintain

5. **Programme:**

- a. Module 1: Introduction; Background; Transition
- b. Module 2: Scope and Need for Emergency Lighting
- c. Module 3: Legislation; Definitions;
- d. Module 4: Emergency Lighting Fundamentals
- e. Module 5: Emergency Lighting Systems
- f. Module 6: Design
- g. Module 7: Installation and Test Facilities
- h. Module 8: Commissioning
- i. Module 9: Handover
- j. Module 10: User Responsibilities and Service (Maintenance & Inspection)
- k. Module 11: Annexes

## **6. Learning Objectives:**

- a. **Module 1:** Introduction; Background; Transition
  - > Background to the Standard
  - > Course overview
  - > Fire Safety Certificate implications
  - > Overview of the Primary differences between the 1989; 2008 and 2013 Standards
  - > Transition
- b. **Module 2:** Scope and Need for Emergency Lighting
  - > Scope of I.S.3217
  - > Need for Emergency Lighting
- c. **Module 3:** Legislation; Definitions;
  - > Legislative status
  - > Definitions
- d. **Module 4:** Emergency Lighting Fundamentals
  - > Basis of Emergency Lighting Design
  - > Escape Lighting types
  - > Compliance requirements
  - > Emergency Lighting Design Software
    - 1. Product details
    - 2. Working examples
  - > System Integrity
  - > Device Placement
  - > Emergency Exit Signage
- e. **Module 5:** Emergency Lighting Systems
  - > Self-Contained Systems
  - > Central Power Systems
  - > Central Generator Powered Systems

- > Comparison and effectiveness of light sources

**f. Module 6: Design**

- > Design requirements overview
- > Design definitions
- > Emergency Lighting Design Process
- > Design detail with examples
- > Design Certification

**g. Module 7: Installation and Test Facilities**

- > Control Equipment
- > Test facilities
- > Cable systems
- > Batteries

**h. Module 8: Commissioning**

- > Commissioning process
- > Commissioning Certification
- > Handover documentation

**i. Module 9: User Responsibilities and Service (Maintenance & Inspection)**

- > User Responsibilities
- > Service and Maintenance Scheduling
- > Service Provider actions
- > Certification

**j. Module 10: Annexes**

**7. Who should attend?**

All parties who are currently involved in any aspect of the works covered by the Standard should attend this course in order to continue to provide a service that will comply with the revised requirements of the new Standard.

These would include:

**Local Authorities:** Fire Officers  
Planners  
Housing Engineers  
Designers (where Emergency Lighting systems form part of their remit)

**Designers:** Fire Engineering Consultants  
Building Services Designers (Consulting Engineers)  
Architects  
Designers and providers of Emergency Lighting systems

**Installers:** Contractors who install Emergency Lighting cabling and systems.

**System Suppliers:** Manufacturers and suppliers of Emergency Lighting systems

**Emergency Lighting System Service and Maintenance Companies:**

**Users:** Parties who are responsible for the operation and maintenance of Emergency Lighting systems in their premises  
Property Management companies

**8. Tutor Profile:**

Paul Condon: Chartered Building Services Engineer; Registered Consulting Engineer.  
Over 40 years' experience in the design and specification Emergency Lighting systems.  
NSAI I.S.3217 and I.S.3218 Fire Safety Standards Committees Member.  
Course developer and presenter.

**9. Test:**

There will be an open-book test on the presented information for certification.

**10. PCCE Award Certificate:**

All participants will receive a PCCE Training Award Certificate for successful completion of the training day above. This will require a pass mark in the Test.

An 'Attendance only' Certificate is awarded for those who do not achieve a 'Pass' level in the test  
The course qualifies for 1-day CPD from Engineers Ireland which is provided to all participants if requested.

## Course EL2 - 1-day Emergency Lighting Review and Design Course

This course was only launched in late 2015 and to date has had some 150 attendees both in-house and around the country.

The course is being revised somewhat to address:

- Details of proposed changes to the Standard currently under discussion by the Standard's Committee

- Additional design detail to add a more practical element to the course.

  - Luminaire selection

  - Typical Designs

  - Emphasis on self-contained installations as opposed to Central Power System installations

- A reduction in some of the 'boring bits' regarding legislation

The course title has changed to reflect its 'Design Training' element.

The outcome from the course in respect of understanding of the standard and its application will be the same as previously however we expect that the attendees will leave with more practical experience than previously.

This course will benefit all parties involved in all aspects of the Emergency Lighting

Design process:

- Architects

- Fire Service

- Designers

- Installers

- Commissioning Parties

This course is approved for 1-day CPD by Engineers Ireland

PCCE Training is a Registered Training Provider with Engineers Ireland

All PCCE Training courses are subject to on-going updates which reflect feed-back from previous participants, further details on identified 'problem areas' and information on any proposed changes to the standards.

NOTE: A separate Emergency Lighting Service Provider Course is under development and is scheduled to be available later this year