



Project No.
8014EC

Date
2025

Doc. No.
EOTSS8014

Serial No
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المكتب الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

Lighting Engineering: Design and Implementation



Lighting Engineering: Design and Implementation Code: 8014-EC

Course Duration:

35 Hours – Spread Across 5 Weeks

Target Audience:

- Lighting designers and technicians
- Stage/theatre professionals
- Event planners and production crews
- Media professionals and cinematographers
- Anyone passionate about lighting aesthetics and functionality

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

Tel: 01102060500-01144470856



الفرع الرئيسي : عمارات المتحدة – عمارة عين شمس – امام البنك
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Course Overview:

This hands-on course takes learners from foundational lighting concepts to professional implementation in theater, architecture, events, film, and TV. You'll gain technical skills in lighting design, control systems, and visual storytelling through light.



Course Modules:



Module 1: Introduction to Lighting Engineering (7 hours)

- Principles of light: intensity, angle, color, and shadows
- Lighting equipment overview: lamps, LEDs, controllers
- Ambient, accent, task, and functional lighting
- Fundamentals of lighting design and layout



Module 2: Lighting Design for Stage and Theatre (7 hours)

- Theatre lighting positions and roles (FOH, backlight, side-light)
- Mood creation through light, shadows, and color
- Practical use of gels, gobos, barn doors, and diffusers
- Lighting cues and transitions in live performances



Module 3: Architectural and Event Lighting (7 hours)

- Designing lighting for buildings, facades, and interior elements
- Outdoor and landscape lighting setups
- Lighting large-scale events: concerts, weddings, exhibitions
- Integrating smart lighting and automated systems



Module 4: Advanced Lighting Techniques (7 hours)

- Programming with DMX controllers and lighting consoles
- Lighting control protocols and system architecture
- Cinematic lighting: roles in storytelling and production
- Using gels and filters to manipulate color temperature and effects



Module 5: Lighting for Film and Television (7 hours)

- Three-point lighting (key, fill, back) for film and TV

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- Lighting interviews, studio shoots, and indoor scenes
- Special lighting for VFX, chroma key, and CGI
- Post-production considerations in lighting

Final Project:

Design and simulate a complete lighting setup for one of the following:

- A live stage performance
- An architectural installation
- A cinematic short scene

Skills You Will Gain:

- Lighting control and programming (DMX, consoles)
- Scene composition and mood creation
- Technical handling of lighting rigs and equipment
- Real-world implementation for indoor/outdoor environments
- Film/TV lighting aesthetics and workflow

Included Materials:

- Wiring diagrams and lighting plots
- DMX console software for practice
- Case studies from real productions
- Lighting design templates and checklists

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