

**NCQLP** *National Council on Qualifications for the Lighting Professions*

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**2018**

**LIGHTFAIR PROGRAM**

**NCQLP LEUs**

2018 Lightfair Course LEUs

Code	Title	NCQLP LEU
L18L02	Intermediate Lighting (2-day)	12
L18L03	AGI32 Basic Course	4.5
L18L06	How to Prepare a Control Intent Narrative and Sequence of Operations for Advanced Lighting Controls	6
L18L07	LED Luminaire Design: Beyond the Basics, Tips and Tricks for a Better Product	6
L18L08	Light and Concept: Creative Process for Lighting Design	6
L18L09	Advanced LED Luminaire Design: A Deep Dive into Two Products	6
L18W01	<b>An Emerging Professional's Guide to Lighting Retrofits</b>	3
L18W02	The Internet of Things for Non-Engineers	3
L18W03	Connecting the Dots Between Lighting Upgrades and What Customers Actually Care About	3
L18W04	Hands-on Introduction to Light Measurement & Standards	3
L18W05	The Worlds of DMX512, DALI and 0-10V	3
L18W07	Lighting Design for Enabling Environments Charrette	3
L18W08	So You Think Your System is Easy to Install and Startup?	3
L18LL1	Lunch & Learn Seminar - Intersecting the latest trends in Building Automation, Building Management Systems, and Smart Lights - sponsored by ARROW ELECTRONICS	1.5
L18S01	<b>A walk in the park: light's role in outdoor public space</b>	1.5
L18S02	Research Confirms iprgcs Effect Vision	1.5
L18S03	Keeping Up with Change - Annual Industry Update	1.5
L18S05	Understanding Emergency Lighting Control	1.5
L18S06	Real-Time 3D Graphics for Lighting Design Exploration	1.5
L18S07	Help! I've Been Asked to be an Expert Witness in a Lighting Case!	1.5
L18S09	Survivor's Guide to the Lighting Universe	1.5

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L18S10	Beyond Blue and Red: Key Challenges, Considerations, and Benefits of Tunable Lighting in Horticulture	1.5
L18S11	Lighting the Way to Net-Zero Buildings	1.5
L18S12	Lighting's place in the IoT world: A Designer's perspective	1.5
L18S13	Horticultural Lighting: A Growing Market	1.5
L18S14	<b>Sweating the Soft Skills – Lessons Learned from 10 Years In</b>	1.5
L18S15	Rewards for Innovation: How Research and Development Tax Credits Propel Innovation in Lighting Design	1.5
L18W09	Light Source and Power Supply Basics	3
L18S16	The Waltz of Light and Architecture	1.5
L18S18	U.S. LED Lighting Standards Overview and Update	1.5
L18S19	Developing Lighting Solutions for Energy and Non-Energy Benefits in Hospitals, Schools and Offices	1.5
L18S20	LED Lighting Product Life and Failure: Why We Need New Test Methods for Accurate Life Reporting in Applications	1.5
L18LH01	The Truth About Circadian Lighting 2.0	1
L18LH02	Lighting Metrics for Well-being: Characterizing Visual and Non-visual Responses	1
L18LH03	Seeing Red: How Long-Wavelength Light can Impact Humans, Plants, and Animals	1
L18LH04	How To Do Tunable WELL: Points, Pitfalls, and Potential	1
L18LH05	Circadian Lighting Solutions for Office Workplaces	1
L18LH06	<b>Starving for Darkness – How Exterior Lighting Affects Our Wildlife</b>	1
L18SC01	Lighting & Beyond: Pragmatic Use of Artificial Intelligence in Smart Cities	1
L18SC02	Street and Area Lighting Limbo	1
L18SC03	The Smart City Protocol to Control Streetlights, Parking, Waste and Many Other Use Cases	1
L18SC04	The Evolution of Smart Cities 2.0 from A to Z	1
L18SC05	From Data to Information: Using Data to Make Informed Decisions	1

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L18SC06	The Chicago Smart Lighting Program: Bringing Outdoor Lighting into the 21st Century	1
L18SM01	The Intangibles of Daylight	1
L18SM02	Commissioning IoT Lighting Systems	1
L18SM03 changed to L18SM18	The Sky Glow Comparison Tool	1
L18SM04	Restaurant Lighting: The Secret Recipe (How lighting contributes to a memorable dining experience)	1
L18SM05	Best Practices for Tunable Light Specification	1
L18SM06	Glare In Office Spaces Revisited	1
L18SM07	The Value of 3-D Printing in Manufacturing Solid-State Lighting Systems	1
L18SM08	Innovations In Lighting Finance	1
L18SM09	Lighting eHarmony: Does your product website make you un-datable or the perfect catch?	1
L18SM10	Intelligent Buildings: Design & Implementation	1
L18SM11	Control Options for LED Retrofits	1
L18SM12	Spectral Design of Healthcare Environments	1
L18SM13	<b>Lighting's Influence on Demand Response and Demand Management in the LED and Controls Era</b>	1
L18SM14	Utilities and Lighting: Friends or Foes?	1
L18SM15	Securing your Connected Lighting Network	1
L18SM16	Treat Your Building As A Patient: Continuous Environmental Disinfection Using Visible Light	1
L18SM17	Networked Controls: Boon or Bust for Business?	1
L18SM18 change to L18SM03	Specification of LED Lighting Products for Medical Facilities	1
L18SM19	Li-Fi: Wireless Connectivity Through Lighting System	1
L18W10	Solid-State Lighting 101	3