



GUANGDONG VCOM EDUCATION TECHNOLOGY CO.,LTD.
A “Global Industry Partner” of WorldSkills

Syllabus of Fundamentals Training of Optoelectronic Technology

Training Course Detail

No	Date	Session One Time (GMT+8)	Session Two Time (GMT+8)	Content	Description	Speaker
0	(Monday) 12 June 2023 DAY 1	13:00 - 13:10	20:00 - 20:10	Welcome Session + Welcome Speech	The host will introduce the whole training and welcome all the participants.	Host + SCM
1		13:10 - 13:40	20:10 - 20:40	Basic knowledge of LED luminaire	Basic knowledge of LED lighting principles, luminous flux, and distribution curves	Expert
2		13:40 - 14:10	20:40 -21:10	The components in LED luminaire	The main components and functions of LED luminaire, include electrical connection, LED drive function and species, LED chip species and parameters, The heat dissipation method of the luminaire. LED downlight assembly demonstration.	Expert
3		14:10 - 14:40	21:10 - 21:40	Illuminance measurement	Illuminance measurement and calculation.	Expert
4	(Tuesday) 13 June 2023 DAY 2	13:00 - 13:40	20:00 - 20:40	Basic knowledge of LED display	Explain the application scenarios, working principles and main components of the system, key technical parameters, and future development trends of LED display screens	Expert
5		13:40 - 14:10	20:40 - 21:10	Key points of LED display installation and debugging	Explain the main work and technical points of the installation and commissioning of the LED display.	Expert



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6		14:10 - 14:40	21:10 - 21:40	LED Display Calibration Technology	LED display correction technology.	Expert	
7	(Wednesday) 14 June 2023	13:00 - 13:30	20:00 - 20:30	Basic knowledge of DMX light strips	The application scenarios, structure and principle of the smart light strip. Basic knowledge of DMX512.	Expert	
8		DAY 3	13:30 - 14:00	20:30 - 21:00	DMX light strip production and wiring	Cutting, wiring and installation of smart light strips.	Expert
9			14:00 - 14:40	21:00 - 21:40	DMX light strip control	The control method of the smart light strip	Expert
10	(Thursday) 15 June 2023	13:00 - 14:00	20:00 - 21:00	Online Test	Test URL: TBA	Host	
11		DAY 4	14:00 - 14:15	21:00 - 21:15	The "Smart Lighting Show" competition topic announced	TBA	Expert + Host
12			14:15 - 15:15	21:15 - 21:15	Communicate and Discussion	Trainee shares learning experience and suggestions	All
13			15:15 - 15:55	21:15 - 21:55		<ol style="list-style-type: none"> 1. Expert Comments on Exam Questions 2. Online Discussion 	Expert + Trainee

The "Smart Light Show" online competition is an opportunity for participants to apply their learned skills and showcase their creativity. VCOM will provide a material package for individuals to design their own smart light product according to the instructions provided.

To enter the competition, participants must create their product offline, record a demo video, and submit it via email to vcom@china-vcom.com by 11:59 P.M. (GMT+8) on June 20, 2023. We encourage everyone to participate and wish all participants the best of luck!