

Learning Objectives

At the end of this course, the student will be able to:

- Understand the basic elements of optical design for lighting.
- Discuss the differences between the LED package types and understand the technology behind these light sources.
- Understand the requirements and challenges of designing the optics for LED applications.
- Understand how these optics are best integrated into high-performance luminaires designs, as well as, visualizing best practices of fixture application.

Course Overview

This learning unit provides a general overview of the importance of Optical Design using LED light sources. We will review the basic Principles of Optics, LED technologies, Optics for LEDs and the successful integration into luminaire designs. The focus of this presentation is towards interior applications, but many of the principles and concepts carry over to exterior luminaire designs.