

LucidShape CAA Introduction Training

Lucid Shape CAA Based is an interactive development environment for optical simulation and analysis integrated into the CATIA® V5 platform.

Because of the tool's complete integration within CATIA V5, designers who are familiar with CATIA can easily leverage LucidShape's powerful features to produce, with a minimal learning curve, automotive lighting products that meet performance, styling, visual branding and regulatory requirements.

This 2-day short course provides a detailed introduction of LucidShape CAA usage for analysis of lighting and optical product function as well as for the Light Guide design. You will learn about the basics of illumination simulations, advanced material types, analysis, light guide design, and more

Day I

Getting started

LucidShape CAA organization

- Path settings
- LucidShape CAA Options
- Axis Systems
- Using LucidShape with LucidShape CAA
- Toolbars/Menus

Simulation I

Basic optical setup

- Terminology
- Emitter
- Actor
- Sensor

Different ray trace methods

- Monte Carlo
- GPU Trace

Emitter materials

- Emitter overview
- Ray files

Actor materials

- Scattering models
- Reflector overview, Lambertian, Gaussian, ABg reflector
- Refractor overview

Sensor materials

- Photometric quantities
- Sensor overview
- Candela, light flux, illumination, luminance sensor
- Ray history sensor

Day II

Design Features Introduction

- Theory for profile curves and surfaces
- The PS (procedural surface) application
- The MF (macro focal) application
- The PCS (poly curve system) application

Design Features Application

- PS Various types (rectangle round ...) for reflector and lens
- MF Reflector, Lens for various light function, cutoff lines
- MF grid types, projection on surface
- PES headlamp, LED concentrator
- Collimators shapes and combinations with other design features

Simulation II

- Spectral simulation
- Lit Appearance (Luminance camera)
- Analysis Tools: LID Test Tables

Day III

Lucid Shape CAA Part vs Product (Assembly) Level

- Part Level description
- Product (Assembly) Level description

Light Guide Designer

- LGD overview (Main and Optimization dialog features)
- Uniformity optimization
- Light paths direction optimization
- Spatial and angular analysis
- Luminance analysis

To Register or For Information, Contact

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IMPORTANT:

Attendees are responsible for their own arrangements for accommodation.

Tuition includes all teaching materials.

Tuition must be paid in full prior to attendance. Minimum enrollments apply.

Who Should Attend?

Current users of LucidShape are invited to attend these training sessions.

Training sessions are subject to space limitations and topics are subject to change without prior notification.

Contact Us

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