

## LightTools Macro Training

LightTools is a unique optical engineering and design software product that features virtual prototyping, simulation, optimization, and photorealistic renderings of precision illumination applications. The software has adapted solid modeling technology to accommodate the inherent accuracy required to simulate ray paths of light as they traverse through and within optical elements and mechanical structures. The software is straightforward to use, accurate, has the most advanced capabilities commercially available, and supports the tasks of design and engineering iterations in addition to analysis.

### Goals for this Course

This 3-day course is designed for current LightTools users who want to program user-defined features in LightTools. The course emphasizes hands-on computer workshop sessions. The course begins with a review of using Visual Basic for Applications to write macros to control LightTools and retrieve simulation results.

### Format for the Course

The course will combine lectures and demonstrations, as well as hands-on examples and workshop problems. Questions and discussions are encouraged.

### Agenda

- Day 1 :
  - Data Manipulation with VB
  - Analysis using COM Macros
- Day 2 :
  - Development Tools, Creating DLLs for LightTools
  - Programming User-defined Optimization: Variables, Constraints, and Merit Functions
- Day 3 :
  - Programming User-defined Optical Properties
  - Thread-safety

## To Register or For Information, Contact

### Light Tec

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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 LightTools 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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