

On-site Seminar Description

Title: Specifying optics using ISO-10110: The optics drawing standard

DESCRIPTION

This course provides attendees with an understanding of ISO-10110, the International Standard for Optics drawing notations. The course concentrates on the fundamentals of the drawing layout and notations required for typical optics, such as glass parameters, radius, wave-front, surface imperfections and roughness. Attendees are also introduced to all other sections of the drawing standard, including proper notation for aspheres, laser damage threshold, and transmitted wave front error. Practical and useful examples are included throughout. The course price includes copies of the basic drawing standards, ISO 10110-1 and ISO 10110-10.

LEARNING OUTCOMES

This course will enable you to:

- Read and interpret an optical drawing prepared to ISO-10110
- Identify the meaning of the symbology of ISO 10110
- Describe which symbol corresponds to each of the fundamental optical parameters
- Compose a ISO-10110-compliant optical element drawing

INTENDED AUDIENCE

This material is intended for anyone who encounters or generates optical drawings in the course of their work, and is called on to specify or interpret them. Those who either design their own optics, work with optical designers, or manufacture optics to ISO 10110 tolerances will find this course valuable.

COURSE LEVEL

Beginner/Intermediate

COURSE LENGTH

Full day (7.5 hours)

INSTRUCTOR

Dave Aikens is President and founder of Savvy Optics Corp., and has been involved in optics drawings and specifications for over 20 years. He is the head of the American delegation to ISO TC 172, and serves on the Board of Directors for the Optics and Electro-Optics Standards Council.

NOTES

The course price includes handouts of the presentation material for up to 20 attendees and two copies of both ISO 10110-1:2006 *Optics and photonics - Preparation of drawings for optical elements and systems - Part 1: General*, and ISO 10110-10:2004 *Optics and photonics - Preparation of drawings for optical elements and systems - Part 10: Table representing data of optical elements and cemented assemblies*. Additional parts need to be purchased separately.