

On-site Seminar Description

Title: Understanding Scratch and Dig Specifications

Description:

Surface imperfection specifications (i.e. Scratch-Dig) are among the most misunderstood, misinterpreted, and ambiguous of all optics component specifications. This course provides attendees with an understanding of the source of ambiguity in surface imperfection specifications, and provides the context needed to properly specify surface imperfections using a variety of specification standards, and to evaluate a given optic to a particular level of surface imperfection specification. The course will focus on the differences and application of the MIL-PRF-13830, ISO 10110-7, and ANSI/OEOSC OP1.002. Many practical and useful specification examples are included throughout, as well as demonstration of visual comparison evaluation techniques and artifacts.

Learning outcomes:

This course will enable you to:

- describe the various surface imperfection specifications that exist today
- compose a meaningful surface imperfection specification for cosmetic imperfections using ISO, ANSI, or Mil standards
- identify the different illumination methods and comparison standards for evaluation
- demonstrate a surface imperfection visual inspection
- understand the options available for controlling surface imperfections in a vendor/supplier relationship

Intended audience:

This material is intended for anyone who needs specify, quote, or evaluate optics for surface imperfections. Those who either design their own optics or who are responsible for optics quality control will find this course valuable. Maximum of 30 attendees per session.

Course level: Beginner/Intermediate

Course Length: Half day (4.5 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 SC1, and is chairman of the American Standards Committee for Optics, ASC/OP.

Notes:

The course price includes presentation handouts and plastic comparison paddles for all attendees, three copies of the latest ANSI approved surface imperfection specification standard, and one each of ISO 10110 Part 7 and ISO 14997.