

Industrial LSO agenda

DAY 1

- I. Introductions
- II. ANSI and the Laser Safety Officer
 - a. What is ANSI
 - b. LSO Responsibilities
- III. Basic Concepts
 - a. Properties of light
 - b. L.A.S.E.R.
 - c. Components of a laser
 - d. Production of laser light
- IV. Beam Hazards
 - a. Bioeffects
 - i. eye
 - ii. skin
 - iii. overview of hazard analysis, MPE, NHZ, OD
- V. Laser Accident History
 - a. Statistics/databases
 - b. When they happen
 - c. Review of several accidents case histories
 - d. Accident response, what to do
- VI. Laser Regulations & Consensus Standards
 - a. ANSI
 - b. FDA
 - c. IEC
 - d. OSHA and others

DAY 2

- VII. Non-beam
 - a. Biological
 - b. Chemical
 - c. Physical
 - d. Human factors
- VIII. Control Measures
 - a. Engineering
 - b. Administrative
 - i. Examples
 - ii. Special attention to laser eyewear
 - iii. Examples
- IX. Laser Safety Program Administration
 - a. How to start a program
 - i. LSO tools
 - b. Policy
 - c. Procedures
 - i. Standard Operating Procedures
 - d. Operations
 - i. Inventory
 - ii. Audits
 - iii. Training
 - iv. Laser Safety Committee
 - e. Medical Surveillance