

LSO Online Agenda

- I. Introduction
- II. ANSI Z136.1 and the LSO
 - a. Definition of ANSI
 - b. ANSI History
 - c. ASC Z136 Committee
- III. LSO Specific Responsibilities
 - a. Classification/hazard evaluation
 - b. Control measures
 - c. Procedural approval/protective equipment
 - d. Safety audits and training
 - e. Establish temporary control areas
 - f. Medical surveillance
- IV. Basics of Laser Physics
 - a. Properties of light
 - b. L.A.S.E.R.
 - c. Components of a laser
 - d. Production of laser light
 - e. Applications
 - f. Laser Classification
- V. Hazards
 - a. Beam
 - i. Bioeffects
 - 1. eye
 - 2. skin
 - 3. overview of hazard analysis, MPE, NHZ, OD
 - b. Non-beam
 - i. Physical Agents
 - ii. Chemical Agents
 - iii. Biological Agents
 - iv. Human factors
- VI. Laser Accidents
 - a. Statistics/databases
 - b. When they happen
 - c. Review of several accidents case histories
 - d. Accident response, what to do
 - e. Perception issues
- VII. Laser Regulations and Consensus Standards
 - a. Government regulations
 - i. FDA/CDRH-Federal Laser Product Performance Standard
 - ii. OSHA
 - iii. FAA
 - iv. Various States
 - b. Consensus Standards
 - i. Other ANSI standards
 - ii. International standard (IEC)
- VIII. Control Measures
 - a. Engineering
 - b. Administrative
 - i. Examples
 - ii. Special attention to laser eyewear
 - iii. Examples
- IX. Laser Safety Program Administration
 - a. Policy
 - b. Procedures
 - i. Standard Operating Procedures
 - c. Operations
 - i. Inventory
 - ii. Audits
 - iii. Training
 - iv. Laser Safety Committee
 - d. Medical Surveillance