

# **Resort Laser Retreat**

WorldMark Angels Camp Resort

Valentines Weekend Get Away

February 14 to 15<sup>th</sup> 2020

## **Resort Laser Retreat Seminar**

### **Laser Fundamentals and Performance Tests**

Saturday, February 15, 2020 from 8:30 to 12:30 PM

#### **Course Summary**

If you are uncomfortable working with lasers as "black boxes" and would like to have a basic understanding of their inner workings, this introductory course will be of benefit to you. The workshop will cover the basic principles common to the operation of any laser/laser system. Next, we will discuss laser components and their functionality. Components covered will include laser pumps/energy sources, mirrors, active media, nonlinear crystals, and Q-switches.

The properties of laser beams will be described in a manner consistent with user/application performance specifications and subsequently Final Tests implemented by laser manufacturers before shipping lasers/laser systems. *(You are likely to get the best lasers/laser systems if you let your manufacturer know that you will be testing them as soon as you receive them to make sure they meet performance specifications).*

#### **Learning Outcomes**

- describe the overall inner workings of any laser
- describe the functionality of the key laser components
- know the difference between how acousto- and electro-optic Q-switches work
- explain how each key component in a laser may contribute to laser performance
- intelligently engage your clients or customers using proper laser terminology
- build stronger relationships with clients and customers by demonstrating product knowledge
- obtain the technical knowledge and confidence to enhance your job performance and rise above the competition, inside and outside your company

#### **Intended Audience**

Managers, engineers, technicians, assemblers, sales/marketing, customer service, and other support staff. This short course will help cultivate a common/standardized understanding of lasers across the company.

For retreat details and complete program log on to <http://www.laserpronet.com/> and click on Laser Retreats OR email [laserretreats@laserpronet.com](mailto:laserretreats@laserpronet.com)