

## Instructor(s)

Simon L. Engel is the Principal Instructor for the HDE Laser Technology courses. He is considered to be one of the 'first generation' of technical people who grew up with the development of high power lasers as used in industrial applications. He earned the B.A.Sc. in Mechanical Engineering from the University of British Columbia, in Canada. His 'majors' were mechanical design, optics and lasers.

His background and credits are as follows:

Owner and Operations Manager of his previous company, HDE Systems, Inc., a laser systems and contract laser applications company, for 2+ decades.

Past Technical Director of the Laser Welding Certification program at EPD of the University of Wisconsin.

Retired Principal instructor of all Laser courses at EPD of the University of Wisconsin, for 34 years.

Laser Applications Lab Manager at GTE Sylvania.

Sr. Laser Process Development Engineer at Caterpillar Tractor Co.  
8 US Patents and numerous technical publications.

Member of AWS, LIA and SME.

- Vice-Chair of the AWS C7C Laser Welding Standards Committee and the AWS C7.2M:2010 Recommended Practices of Laser Beam Welding, Cutting and Allied Processes.
- One of the authors of the NSF Funded WeldEd laser welding curriculum.
- Past Chairman of a number of technical conferences for SME and ALAW.

Columnist – Laser Welding Q & A

- Welding Journal every other month, publication of AWS.

His company, HDE Technologies, Inc. is an approved supplier to most major corporations in the Automotive, Medical Device, Pharmaceutical, Aerospace, and Electronic Components industries.

It is estimated that since 1976 (40 years) approx. 5,000 persons attended one or more of Mr. Engel's laser classes.

## **Academic support and advisor**

Dr. Merrilee L. Engel – Vice President of Education and Training at HDE

### Past professional activities:

- Member (and past Chair) – Board of Trustees, University of Phoenix, Phoenix, AZ
- Member – Board of Directors – University of Phoenix, Phoenix, AZ
- President – Cosumnes River College, Sacramento, CA
- Assistant Superintendent/VP of Instruction – Palomar College, CA
- PhD – Psychology – University of Illinois, Urbana, IL

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