About the Company

HDE Technologies, Inc.

COMPANY MISSION

- HDE believes that for the best results, people working in industry should receive quality technical education.

- HDE also believes that people working in industry should have the technologically (and economically) the best tools available.

- HDE’s ‘trade mark’ is prompt response to customer inquiries. Also the best quality of service delivered to meet the customers’ needs and their quality requirements.

- The material HDE presents is developed by HDE – independently of the manufacturers of lasers, laser systems and laser accessories. HDE has no formal or informal business relationship with any ‘suppliers’. HDE’s client base is the end users of lasers.

The Customers’ success is HDE’s success.

COMPANY BACKGROUND

- HDE Systems, Inc, the predecessor of HDE Technologies, Inc. was incorporated in the State of California in 1976. It is believed that HDE was the second contract shop and laser systems builder in the WORLD!

- The founder of HDE, Simon L. Engel, developed the precision hole drilling technology in 1976. This resulted in getting contracts for contract drilling of jet engine combustors and blades and to build sophisticated multi-axis laser systems.
• HDE built its first laser system for the drilling of fuel injection holes in turbine engine combustors in 1978. It was a 5-axis machine, using stepping motor drives and punched 8-channel tape as the program and storage media.

• In 1980 HDE built the first 5 axis laser drilling system for the drilling of cooling holes in jet engine blades.

• In the years 1978 to 1984, HDE sold, designed, built and delivered 54 laser systems. About ½ of these systems were designed for laser welding. In 2013 (more than 30 years later) HDE found out that some of these HDE Laser Systems are still working and running production!

• In 1984 (approx) HDE changed its business model and pursued contract research work and contract laser processing.

• In 1998, 22 years after starting the Company, the business model was changed again to pursue laser technology education and technical support to the industry.

• In 2012 the business model was changed again to meet the trend and the demand of the various industries. Today HDE Technologies, Inc. is a leading provider of education and training in the field of laser welding. As far as we can tell, HDE is the only company in the USA that offers Distant Learning (On-Line) Programs in Laser Welding! Regularly scheduled classes are offered (on-line) that run 3.5 weeks; 14 hours of instruction. At a very reasonable cost the clients have no travel expenses, no lost time due to travel and receive the Laser Welding Technology Engineering Manual to keep. Very well planned home work includes reading and computational assignments. Training Certificates are issued at the completion of the Program based on attendance and academic results.

• Since 1978, HDE has provided training to approx. 5,500 persons. Over 90% of HDE’s business is ‘repeat’ business from companies, schools and ‘Labs’ that keep sending their newly hired or re-assigned staff to the HDE classes. This statistic speaks for itself!
COMPANY CREDENTIALS

- HDE is an approved supplier to almost all major automakers, auto-component makers, medical device manufacturers, pharmaceutical companies, aerospace company and several US Defense Contractors, etc.

- HDE is listed as a US Government approved supplier and has a specific CAGE – Code.

- The company actively participates in the activities of several professional organizations and actively supports education on the College Level.

PRINCIPAL INSTRUCTOR – Simon L. Engel

- Simon L. Engel is considered to be one of the ‘first generation’ of technical people who grew up with the development of high power lasers and their industrial applications.
- He earned his B.A.Sc. in Mechanical Engineering from the University of British Columbia, in Canada. His ‘majors’ were mechanical design, optics and lasers.
- Owner and Operations Manager of his previous company, HDE Systems, Inc., a laser systems and contract laser applications, for over two decades.
- Past Technical Director of the Laser Welding Certification program at EPD of the University of Wisconsin, in Madison WI.
- Retired Principal Instructor of all Laser Application 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.
- Advisor to the AWS D8E Laser Welding Standard for the Automotive Industry.
- Member of AWS, LIA and SME (life member).
- Past Chairman of a number of technical conferences for SME and ALAW.

Welcome to HDE Technologies, Inc.