

Course Evaluations

Repeat business. Based on surveys taken in each class, **97%** of the attendees come from companies that have sent researchers, engineers and technologists to this HDE classes in the past!

Feedback. Over the years – and certainly since 2012, HDE received some very interesting feedback from the people who took the HDE Laser Welding Technology EQ and PQ classes.

Some are ‘funny’ – which may be taken as an indicator of the relaxed and collaborative atmosphere during the class.

Some are **in Spanish** – and an example is posted.

CL from MI:

Like other manufacturers, the [REDACTED] co-owners also grapple with finding skilled workers.

“They don’t teach this in the schools,” [REDACTED] said. “There is no school in metro Detroit that teaches laser welding.”

As a result, the owners do their own training.

LZ from IN:

I must say I really enjoyed your class. You present a good combination of technical information and real world experiences (stories). The energy and passion you have for the subject is contagious. I see lots of opportunities for laser technology uses in my industry. It opens to door to design opportunities that are not possible with current manufacturing/assembly processes.

KL from MI ‘... The training has helped to cut down on my troubleshooting time. (it is the focus lens contamination most of the times)...’

SN in PA: Simon.....you are a shining star for laser training and education in the U.S.

NM from MN: '...we are trying to identify (Company name) employees who have been through your laser training class --- to send students (back) and provide refreshers to individuals on a regular basis. We feel the class is excellent for establishing a baseline and encouraging all employees to 'speak a common language...'

NN from CA: '...I'd like to say that your class is really excellent. In fact, I do believe your class is the best among the several classes I have taken in the last few years...'

BG from TX: '...I had a good time with your class. It was a great way of coming back to something learned exercised, and then reinforced, over the course of a few years. Also, the material was presented very well. Thank you...'

BZ from MN: '...I always enjoyed your classes and reflect on your material quite frequently...'

DR from NM: '...I took your course 28 years ago and was delighted to see you are still involved...'

EO from AZ: '...It was a huge gain in knowledge sitting in your class. I hope that you are already planned to capture the knowledge & experiences for future generations...' [Ed.

JG from MI: '...Its my pleasure take this class with a láser genius. It's a huge información and a few time'.

KE from MI: '...it was a lot of great information. I really appreciate the extra help with some of my projects. I will be doing a lot more tests now based on the information you gave me...look into working with you to develop a LWM for CW welding...'

KK: 'First I would like to say that the class is excellent and I feel privileged to be in it and to get to learn from you.'

MS from AZ: '...which is a testament to Simon's good teaching. The material was really interesting and presented very well....'

PH from TX: (same question) '...YES. Encyclopedic knowledge of subject...'

PO from CA: (Question: Did the instructor seem to know the material (yes/no)?) '...YES.

SN from PA: '...you are the shining star for laser training and education in the U.S.'

RP from CA: '...a highly respected course in this process domain (no commission fee for me for supporting a course that has been developed over the years address this continuously improving technology)...'

TT: 'I enjoyed your class very much and have a great respect for your lifetime of laser knowledge. It is apparent that you enjoy teaching and you are very good at it.'

UN: (sent during the class!) 'I'm thoroughly enjoying the class this week and can't wait to get back to work and use my new knowledge...I can see now that the (past weld process) evaluation has a lot of holes in it and although we may have stumbled onto a better weld process we did not really approach the investigation correctly'.

OG from KY: 'Simon, Thanks for instructing the class last week and answering so many questions. I found it quite enlightening and I am looking forward to using my new knowledge to improve our laser welding processes here'.

NL from IN: Yes, your class came highly recommended from **K_____** as I was looking for fulfill my training requirements for the year. I'm on the product design side, although I'm expecting to benefit from a more solid laser welding foundation so that can be considered upfront in the concept and design phases. **K_____**'s been sharing the developments on the copper welding knowledgebase – **good stuff**.

Responses to special emails – updates to Manuals

(HDE sent out the electronic copy of one of the Sections in the HDE Laser Welding Technology Manual because some technical 'typo-s' were discovered. Here are some of the responses).

AC from MX: Thanks for keep us updated and the good follow up after the training, it says good things about your teaching commitment'.

JN from MI: [HDE provides] '...not the best service possible...', [it provides] '...the best service available.'

KB from TX: 'I enjoyed your class, your material is very educationally geared but also very practical'. '...If you had an opportunity to have a lecture for the AWS student chapter meeting you could make an impression...'. [ed. HDE often makes technical presentations at AWS dinner meetings].

(Responses to the question: **How do you define 'stake welding?'**)

XX from MN: 'Steak Weld - Weld produced by a steak welder. Steak welder – steak-pumped Nd:MOO laser. Perfect 'T-bone' spatial profile (sketch added)...'

YY from MN: 'The fusion of a New York Strip and Filet Mignon with a Diode Laser and a seasoned 'pig tail' fiber optic delivery system. Add Lawry's Seasoned Salt...'



HDE Laser Welding Technology Class in Minneapolis – **record attendance** – September 2016

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Ok. Simón. I switch ti spanish

Que tal Ing. Enrique
Como esta.

Hace 4 semanas aproximadamente yo asistí al entrenamiento en láser que da el Ing Simón. El entrenamiento esta excelente. Y toda la infrmacion y practicas que vas a recibir. Aprenderas mucho de los defectos, como analizarlos y Como corregirlos usando calculos matematicos. Ina de las mejores herramienta que he Visto es el algoritmo matematico que isa simon para ajustar la laser

Entre otras cosas el manual que vas a recibir te explica muy bien y a detalle todo lo que vez en el entrenamiento. Y el utiliza casos reales de la industria como ejemplos y el estudiante tienenque encontrar la solucion. Algunas recomendaciones que te pueda dar es llévate una laptop ya que hay podrás correr el algoritmo

La siguiente es llévate ropa cómoda y has todas las preguntas que tengas. El INg Simón es un perito. En la materia un experto, y no hubo una sola pregunta sin respuesta

Terminando el curso sabrás muchas cosas de los sistemas láser

En mi experiencia después de que yo tome el entrenamiento la siguiente semana, pude ajustar y alinear el sistema láser que tenemos en una IPG

Ytterbium láser system. De estado sólido. Aunque también tenemos CO2

Créeme. Este entrenamiento es oro

Aprovéchalo al máximo. En monterrey hablemos muy pocos expertos en láser

Bueno ing. Cualquier cosa estamos en contacto.

Te dejo mi tel. 8111 000 000 000

Actualmente ando en Michigan corriendo los prototipos de un cliente. 100% soldadura láser

Llego el próximo sábado a monterrey

Dios te bendiga y estamos en contacto