



**CUSTOM TRAINING
BRINGS AN AERA
TECH RIGHT TO
YOUR SHOP**



**CUSTOM
TRAINING**

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AERA Custom Training programs bring a tech right to your shop. We work with you on-site and help with the practical knowledge that we have gained throughout our careers. At AERA, all of our techs come directly from the industry, so each and every tech specialist has either been a shop owner or worked as a machinist, technician, manager and problem solver. We have walked the miles in this industry and would like to offer a level of support where we can come to your facility and help find solutions to some of your challenges.

The Custom Training program is led by Chuck Lynch, AERA's Director of Technical Services. Chuck enjoys getting into shops to see what products are being worked on, equipment types and strategies, and what tooling is being employed.

Chuck started his engine repair career in the Marine Corps working in the General Support Maintenance (GSM) unit. That is where the engines, transmission and other ancillary components were built and tested. After leaving the Marine Corps, Chuck went on to join the largest privately held engine remanufacturer in the US and spent 20 years there before moving on to the machine industry as a repair and installation technician and trainer.

After many years in the industry, Chuck has developed his skills in process control, quality systems and standards of industry and utilization of studied problem solving strategies. He has been fortunate to forge relationships with parts manufacturers and learn the critical to quality aspects of products that we use in our engine builds daily. These details are the why behind many of our processes such as honing, milling, polishing, proper assembly techniques, how to properly test and measure the results.

A simple misunderstanding of a single feature of a part or process can mean failure. In a volume building environment, that mistake is likely to quickly get out of control and wreck you both financially and...in reputation.

Gaining this knowledge and skill set is what drove Chuck to take an even greater interest in the impact of the tools and equipment on the products that we build. Process evaluation is always about man, method and machine. The Man is the biggest challenge as there is no exacting approach as we are all different, thinking, rational or sometimes irrational beings. Methods are pretty easy to chart and follow, and that you must do for repeatable results. Machine is an area of where you need to better understand cause and effect. The machine that is not maintained and verified to performance parameters can be your worst enemy instead of your most cooperative asset.

Chuck has experience doing technical presentations at AERA Tech & Skills Regional Conferences and the Advanced Engineering Technology Conference (AETC).

TRAINING TOPICS

Training topics include but aren't limited to:

- Machine Tool Optimization
- Product Failure Analysis
- Incoming Parts Qualification (criteria and needed measuring devices)
- Calibration Rules for Measurement Tools & Gauges
- Specialized Tooling & Fixtures (for manual operations or to improve machine operations)
- Engine Testing Parameters and Strategies
- Critical to Quality Criteria of engine castings in reference to surface finish requirements, bore geometry, understanding flatness/waviness, etc.



AERA CUSTOM TRAINING

INFORMATION REQUEST FORM

For more information or to arrange a custom training program for your shop, please complete this form and we will follow up. You may also contact Chuck directly at 815-305-6367 or email chuck@aera.org.

NAME

COMPANY NAME

AERA ID NUMBER:

COMPANY ADDRESS

CITY, STATE, ZIP

PHONE

E-MAIL ADDRESS (REQUIRED)

Please list the training topic(s) you would like included in your training program:



Please fax completed form to AERA

toll-free fax 888-329-2372

Or, **mail** your completed form to: AERA, 875 Feinberg Court, Suite 106, Cary, IL 60013.
Call AERA toll-free if you have any questions: 888-326-2372 or direct at 815-526-7600.



875 Feinberg Court, Suite 106
Cary, IL 60013 U.S.A.

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AERA's Custom Training program is led by Chuck Lynch. He has over 25 years of industry experience, with 20 of those years in Production Engine Remanufacturing, in many different roles, including process engineer. He has also worked as a quality auditor, analyzed tooling needs, coordinated procurement and training for equipment and tooling, incorporated the use of super abrasives, coordinated failure analysis of components, and more. He also spent time with Rottler Manufacturing as a field service technician and most recently with MAHLE as PER Sales Engineer.

Chuck knows how to help AERA members with just about everything. If you are having tooling or equipment issues, chances are, Chuck has seen it before.

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