



# *The 28th Annual* **USA**

## *Shot Peening and Blast Cleaning Workshop and Trade Show*

*September 30 - October 2, 2019 • Orlando, Florida*

*Because of what I learned we were able to bring our process and training up to date, and is more aligned with the AMS spec.*

**Technical Crew Leader  
U.S. Airline Carrier**

*With my acquired knowledge we have been able to set up a Shot Peen department doing Rotary Peening, Boeing Manual Shot Peening and an Automated process for Goodrich wheel repairs. This has saved a lot of time and cost.*

**Lead Technician  
Global Cargo Airline**

*The things that we've learned and connections we've made through you continues to improve and maintain our work every day.*

**Engineer  
International Tool Manufacturer**

# *Shot Peening Training that Works*

## Training for Results

From our first USA workshop in 1991, our training programs have elevated shot peening into a controlled and respected process. Whether you work for a small job shop or an international aerospace manufacturer, you will gain the skills and knowledge necessary for a successful shot peening program.

## Put Our Tools to Work for You

### ■ Certification Exams

Workshop students have the opportunity to take Level 1, 2 and 3 and Rotary Flap Peening Certification Exams. Upon passing an exam, the participant earns a Certificate of Achievement. Our exams validate a higher level of shot peening performance, elevate professional standards, and spotlight a company's commitment to educational development.

### ■ Course Content

Review our Workshop Topics and you will see that we cover every aspect of a controlled shot peening program. Our professional instructors review how and why shot peening works, how to do it correctly, and how to inspect the completed process. An emphasis on shot peening and blast cleaning equipment and its maintenance is included as well as the selection and quality control of media. In addition, our material is based on SAE specifications.

### ■ Experience and Know-How of Instructors

Our instructors are experts in their fields—they work in the shot peening industry just like you. One of the most appreciated aspects of our classes is the personal interaction. Our instructors welcome questions and will address issues that affect your work environment.

### ■ FAA-Accepted Courses

Aviation personnel enrolled in the FAA/AMT awards program and FAA auditors and inspectors may receive credit toward their yearly FAA training requirement by taking our FAA-accepted courses and passing a Certification Exam.

### ■ Networking Opportunities

The workshop provides a unique opportunity to talk with your peers and industry leaders. The environment is friendly and relaxed. Instructors and exhibitors look forward to answering your questions and they are generous with their time.

### ■ Relevance to Every Member of Your Team

We provide relevant content for product design managers, machine operators, foremen, supervisors, and maintenance and quality control engineers.

### ■ Reasonable Attendance Fees

Our goal is to elevate shot peening standards throughout the industry so we keep our fees reasonable. The workshop attendance fee includes tuition for all three days, the reference book, a full breakfast, break refreshments, lunch, the workshop t-shirt, and a Certificate of Attendance. Because a team approach is so important to a successful shot peening program, we offer a discount when two or more people attend from one organization.

### ■ Valuable Reference Materials

Our comprehensive reference book is included in your attendance fee. It is filled with information you will use on the job.

## Training Topics

### Basics of Shot Peening

- What It Does
- Where It Is Used
- How It Works
- Controlling the Process
- Application Benefits

### Media

- Basics
- Cut Wire Media
- Cast Steel Shot
- Ceramic Bead
- Glass Bead
- Selection for Peening and/or Cleaning
- AMS 2431 Outline
- Size and Shape Inspection Procedures
- Flowrate Testing
- Maintenance
- Hands-On Size and Shape Inspection

### Intensity

- Limits
- Determination
- Saturation Curves
- Curve Solvers
- Verification
- Avoiding Errors
- Adjusting / Correcting
- Parameters that Affect Intensity
- Multiple Location Verification
- Hands-on Intensity Determination
- Hands-on Almen Gage Calibration

### Coverage

- Process Time Determination
- Masking
- Lean Peening
- Process Time Estimation
- Inspection Errors
- Difficult Peening Locations
- Surface Texture

### Special Processes

- Techniques for Challenging Applications
- Rotary Flapper Peening
- Needle Peening
- Ultrasonic Peening
- Laser Peening
- Wet Peening
- Peening Carburized Gears
- Turbine Engine Repairs
- Peen Forming
- Blast Cleaning

### Equipment

- Wheel Blast Machine Design
- Air Blast Machine Design
- Machine Maintenance
- Problem Solving / Case Studies
- Nozzle Designs
- MagnaValve Calibration for Media Control
- Dust Collectors
- Converting a Blast Cleaning Machine to a Peening Machine
- Using Shaded Strips (also called Mini-Strips)
- Optimizing Operating Costs

### Quality Assurance

- Reading and Creating SN Curves
- Reading Stress Curves
- Creating Stress Profiles / Residual Stress Measurement
- Self-Auditing
- Nadcap Audit Expectations
- Fatigue Study

Workshop topics are subject to change. For the latest information, visit [www.shotpeeningtraining.com](http://www.shotpeeningtraining.com).

# Registration Form

Complete and return form with payment or go to [www.shotpeeningtraining.com](http://www.shotpeeningtraining.com) for our secure and easy-to-use online registration.

## ATTENDANCE FEES

Number of attendees	Fee per person	Total number of people	Total cost
1 .....	\$900 .....	<input type="text"/>	<input type="text"/>
2 - 3 .....	\$810 .....	<input type="text"/>	<input type="text"/>
4 or more .....	\$720 .....	<input type="text"/>	<input type="text"/>

## Certification Exam Fees

	Fee per person	Total number of people	Total cost
Level 1 Shot Peening .....	\$100 .....	<input type="text"/>	<input type="text"/>
Level 2 Shot Peening .....	\$100 .....	<input type="text"/>	<input type="text"/>
Level 3 Shot Peening .....	\$100 .....	<input type="text"/>	<input type="text"/>
Rotary Flap Peening .....	\$100 .....	<input type="text"/>	<input type="text"/>

**Total Fees** .....

**All attendees must be registered at the same time to receive the multiple-person discount.**

**Exams must be taken in sequence and only one exam can be taken during a workshop.**

Workshop fee includes reference book, breakfast, break refreshments, t-shirt, lunch and Certificate of Attendance. It does not include lodging, parking fees, transportation or dinner meals. There is a 150 USD fee for cancellations before September 16, 2019. Cancellations made after September 16, 2019 or workshop "no shows" will be liable for the full fee. Enrollment substitutions may be made at any time.

## T-SHIRT ORDER (Men's sizes only)

☐ S ☐ M ☐ L ☐ XL ☐ 2X ☐ 3X Our free t-shirts are a workshop tradition. Please wear it in the group photo.

## PAYMENT INFORMATION

Date: \_\_\_\_\_

Payment must accompany registration.

☐ Check (Payable to Electronics Incorporated and drawn on a U.S. bank)

☐ Credit card: ☐ VISA ☐ MasterCard ☐ American Express

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_ - \_\_\_\_\_ 3-Digit Security Code \_\_\_\_\_

Cardholder's Name \_\_\_\_\_

Signature \_\_\_\_\_

## ATTENDEE INFORMATION

One form per person, please. You may photocopy this form.

**IMPORTANT:** Please print legibly and provide requested information. This information will be on your name badge and certificate(s). Your workshop confirmation will be emailed to you. You may attach your business card instead of writing the information.

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Company Name \_\_\_\_\_

Title / Occupation \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

Telephone Number \_\_\_\_\_

Fax Number \_\_\_\_\_

Student's Email Address \_\_\_\_\_

## Hotel Information



The Shot Peening Workshop and Trade Show will be held at the **Hilton Orlando Lake Buena Vista**. The hotel has set aside a block of rooms for workshop attendees at a discounted rate of \$179.00. The price does not include the occupancy tax, currently at 12.5%. The discounted room rate is available until August 29th or until the rooms are sold out. Discounted rooms may sell out early. Mention the "Shot Peening Workshop" for discounted rates. You may book more than one room at the lower rate.

To make hotel reservations, go to [www.shotpeeningtraining.com](http://www.shotpeeningtraining.com) and link directly to a reservation page.

## Electronics Inc. Contact Information

Send the completed form by mail, fax or scan and email it.

EI Shot Peening Training  
56790 Magnetic Drive  
Mishawaka, Indiana 46545 USA

**Fax:** 1-574-256-5222

**Phone:** 1-800-832-5653 or 1-574-256-5001

**Email:** [info@shotpeeningtraining.com](mailto:info@shotpeeningtraining.com)

**Facebook:**

[www.facebook.com/eishotpeeningtraining](http://www.facebook.com/eishotpeeningtraining)



A Division of Electronics Incorporated

## Testimonials

*"First and foremost, that was probably one of the best "Professional Training" conferences I have attended. I was very impressed with the content of the classes, and the setup/scheduling of the classes. I walked into the training with some understanding of the peening process and walked out with a much better understanding. I even got quite a bit out of the more advanced breakout sessions that I sat in on as well."*

Ben Lesire

Process Engineer / Paulo Products Company

*"I wanted to extend a gracious thank you for hosting the Shot Peening Training Seminar in Orlando, Florida last week. I never thought I could learn so much information in three days. It will really help my company out in getting our shot peening process started and underway."*

Quality Engineer

Precision Machine Parts Manufacturer

*"Our company will be making quality improvements as a result of this training."*

Technical Specialist

Engine OEM

*"I wanted to thank you again for putting on the seminar in Irvine last year. I was able to get a better understanding of the process and how to plot a saturation curve. Because of what I learned we were able to bring our process and training up to date, and is more aligned with the AMS spec."*

Technical Crew Leader

U.S. Airline Carrier

*"I learned several things that will help me. Also learned there are areas I really need to work on."*

Shot Peening Technician

Shot Peening Job Shop Specializing in Aerospace

*"The course was very informative to one that had not been exposed to any level of Shot Peening let alone Flapper Peening. I commend you and your organization with the overall workshop; keep up the good work! I would have NO reservations in recommending this course to others in my field—aviation."*

Field Service Engineer

U.S. Helicopter Manufacturer

*"Just wanted to drop a line to say thanks for the workshop in New Mexico. You will always learn something different at every workshop you attend, I really picked up a lot this year. My first one was in 2006 in Phoenix, really enjoyed that one, too. I'm working with my people now showing them a few things I picked up this year."*

Shot Peening Technician

U.S. Turbine Blade Manufacturer