



# MFN Shot Peening Workshop, Hereford, UK

**Date: October 16 - 18, 2024**



[www.mfn.li](http://www.mfn.li)

- 19 different Topics
- FAA accepted Courses
- MFN is a Partner in Education in Nadcap



Basic/Level 1 Course	Intermediate/Level 2 Course	Advanced/Level 3 Course
<b>October 16, 2024</b>	<b>October 17, 2024</b>	<b>October 18, 2024</b>
<p>Level 1 is the minimum requirement for shot peen operators and is the foundation for level 2. The level 1 course provides training in peening workshop operations &amp; inspections. The content includes: Introduction to Peening; Intensity L1; Coverage &amp; other inspections; Wheel Shot Peening Machines; Air peening machines &amp; nozzles; Peening Media L1; Performing &amp; Documentation</p> <p style="color: red;">FAA acceptance ref. no. will be on certificate of achievement</p>	<p>Level 2 is the minimum requirement for shot peen supervisors &amp; technicians. Level 2 builds on the knowledge gained in level 1 to provide further capability in: Understanding Intensity &amp; Saturation curves L2; Saturation curve exercises; Coverage L2; Engineering &amp; Planning the process; Peening Reciprocating Engine Applications; Peening Media L2; Preparing for SP audit</p> <p style="color: red;">FAA acceptance ref. no. will be on certificate of achievement</p>	<p>Level 3 is the recommended standard for auditors, trainers &amp; specifying engineers. Level 3 provides greater breadth and depth of knowledge to enhance the competence gained from the previous levels. Residual Stresses &amp; their measurement; Fatigue &amp; Stress Corrosion; Optimization of SP; SP Process Improvement; Alternative Peening Technologies I; Alternative Peening Technologies II; Undertaking a SP audit</p> <p style="color: red;">FAA acceptance ref. no. will be on certificate of achievement</p>

**Location:** - NMITE - Engineering Degrees | NMITE, Hereford UK, see page 4

**Registration Fees:** - €650 / £560 per person and course, group discount available

- Included: course documentation, break refreshments and lunches
- Not included: transportation, lodging and other meals
- Class size is limited. Make early reservations.
- Optional certificate of ACHIEVEMENT (€100 / £85)
- Payment to be made before the workshop
- "No Shows" will be liable for the full fee.

**Description about the courses at: [www.mfn.li/workshop/courses](http://www.mfn.li/workshop/courses)**



Note: Workshops sometimes get cancelled. Check with organizer before making non-refundable flight or hotel arrangements.

Accommodation is not included so attendees will make their own arrangements at one of the many local hotels. An early booking for this is recommended.

Registration: (One form per person. You may copy this form.)

Name:	Surname:
Company:	Street:
Postal Code:	City:
Country:	Phone:
E-mail:	Fax:

For Europe only - Company VAT Number:

	basic/level 1	intermediate/level 2	advanced/level 3
<b>Shot Peening Course</b> €650 / £560 per course, group discount available. Each course to be paid separately.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Optional Test for Certificate of Achievement (€100 / £85)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Registration E-mail to [paul@mfn.li](mailto:paul@mfn.li), For questions call +44.115.714.2356**

# Why attend the MFN Shot Peening Workshop



The MFN Shot Peening Workshop is offered regularly to provide a training resource for all organisations involved with the Shot Peening process. The training does not require prior experience of the process and can progress trainees from a basic to an advanced knowledge. Operators, supervisors, process & maintenance engineers, buyers, quality engineers, internal trainers will all benefit from new or refreshed knowledge of shot peening and the associated technologies.

## FAA accepted Courses:

All 3 courses offered during the workshop are FAA accepted. Participants who pass the optional examination receive a "Certificate of Achievement", which has the related FAA acceptance number on it. The FAA acceptance gives comprehensive acceptance of capability for certified individuals. This third party approval of the training also conforms to European Continuing Airworthiness requirements.

## MFN is Partner in Education in Nadcap:

Nadcap and MFN have agreed to recognise and promote the cooperation between the two organisations in areas of common interest according to their purpose, namely aerospace special process assessment. The cooperation will be known as "Partners in Education" and is intended to create synergy, making optimal use of the resources available, for the accreditation related activities offered by both organizations so as to provide an effective and efficient service to the aerospace industries in the world.

## Scope of the Workshop training:

The three levels of training ensure that all personnel can achieve the appropriate theoretical knowledge of the shot peening process. Any level of training can be taken, but a progression from level 1 onwards is recommended. Award of levels 2 and 3 certification requires that the previous level, or equivalent, has been attained. The content of the training takes account of requirements in the industry standard AMS 2430, Shot Peening, Nadcap AC7117 audit criteria and aerospace proprietary specifications.

Description about the courses at: [www.mfn.li/workshop/courses](http://www.mfn.li/workshop/courses)





**BASIC / L1: October 16, 2024** **Description about the courses at: [www.mfn.li/workshop/courses](http://www.mfn.li/workshop/courses)**


Time	Subject	Course	Official MFN Trainer
8:50-9:00	-Official Opening of Basic Course / L1	-----	Paul Huyton
9:00-9:45	-Introduction to Peening	Basic, FAA recognized	Paul Huyton
9:45-10:30	-Intensity L1 (requirements & verifying)	Basic, FAA recognized	Paul Huyton
Morning Break (15 minutes)			
10:45-11:30	-Coverage & other inspections	Basic, FAA recognized	Paul Huyton
11:30-12:15	-Wheel Shot Peening Machines	Basic, FAA recognized	Paul Huyton
13:00-13:30	-Air peening machines & nozzles	Basic, FAA recognized	Paul Huyton
13:30-14:15	-Peening Media L1 (types & inspection)	Basic, FAA recognized	Paul Huyton
14:15-15:00	-Performing & Documentation (including masking)	Basic, FAA recognized	Paul Huyton
Afternoon Break (15 minutes)			
15:15-15:35	-Comment: The foundation course for all trainees. The basic theory training for operator level.	Basic, FAA recognized	Paul Huyton
15:35-16:20	-Test for FAA accepted Certificate	Basic, FAA recognized	Paul Huyton

**INTERMEDIATE / L2: October 17, 2024** **Description about the courses at: [www.mfn.li/workshop/courses](http://www.mfn.li/workshop/courses)**


Time	Subject	Course	Official MFN Trainer
8:50-9:00	-Official Opening of Intermediate Course / L2	-----	Paul Huyton
9:00-9:45	-Understanding Intensity & Saturation curves L2	Intermediate, FAA recognized	Paul Huyton
9:45-10:30	-Saturation curve exercises	Intermediate, FAA recognized	Paul Huyton
Morning Break (15 minutes)			
10:45-11:30	-Coverage L2 (development & advanced applications)	Intermediate, FAA recognized	Paul Huyton
11:30-12:15	-Engineering & Planning the process	Intermediate, FAA recognized	Paul Huyton
13:00-13:30	-Peening Reciprocating Engine Applications	Intermediate, FAA recognized	Paul Huyton
13:30-14:15	-Peening Media L2 (specifications & testing)	Intermediate, FAA recognized	Paul Huyton
14:15-15:00	-Preparing for SP audit (as an auditee)	Intermediate, FAA recognized	Paul Huyton
Afternoon Break (15 minutes)			
15:15-15:35	-Comment: For lead operator & supervisory levels	Intermediate, FAA recognized	Paul Huyton
15:35-16:20	-Test for FAA accepted Certificate	Intermediate, FAA recognized	Paul Huyton

**ADVANCED / L3: October 18, 2024** **Description about the courses at: [www.mfn.li/workshop/courses](http://www.mfn.li/workshop/courses)**


Time	Subject	Course	Official MFN Trainer
8:50-9:00	-Official Opening of Advanced Course / L3	-----	Paul Huyton
9:00-9:45	-Residual Stresses & their Measurement	Advanced, FAA recognized	Paul Huyton
9:45-10:30	-Fatigue & Stress Corrosion	Advanced, FAA recognized	Paul Huyton
Morning Break (15 minutes)			
10:45-11:30	-Optimization of SP [including nano-structuring]	Advanced, FAA recognized	Paul Huyton
11:30-12:15	-SP Process Improvement	Advanced, FAA recognized	Paul Huyton
13:00-13:40	-Alternative Peening Technologies I	Advanced, FAA recognized	Paul Huyton
13:40-14:10	-Alternative Peening Technologies II (include rotary flap peening)	Advanced, FAA recognized	Paul Huyton
14:10-15:00	-Undertaking a SP audit (as an auditor)	Advanced, FAA recognized	Paul Huyton
Afternoon Break (15 minutes)			
15:15-15:35	-Comment: For engineering authority, specifiers, auditors	Advanced, FAA recognized	Paul Huyton
15:35-16:20	-Test for FAA accepted Certificate	Advanced, FAA recognized	Paul Huyton



**MFN Office England**  
 Contact: Paul Huyton  
 Tel. +44(0)7891-127-932  
 E-mail: [peening@btinternet.com](mailto:peening@btinternet.com)



**The Trainers:**  
 Paul Huyton  
 Official MFN Trainer,  
 Book Author and Director of  
 Course Content for the MFN  
 Shot Peening Courses



**The Trainers:**  
 Nick Ellicott  
 Official MFN Trainer

More details at [www.mfn.li/trainers](http://www.mfn.li/trainers)

**E-mail Registration Form to**  
[peening@btinternet.com](mailto:peening@btinternet.com)





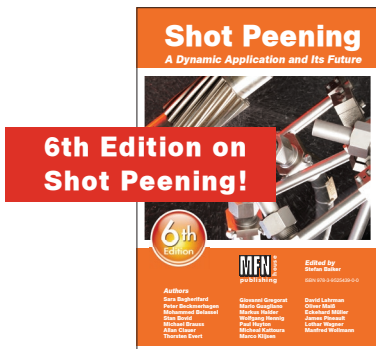
**MFN Workshop Location:**



**Information:**  
**New Model Institute for Technology and Engineering (NMITE)**  
**Blackfriars St.**  
**Hereford**  
**HR4 9HS**



**Hotel Information:**  
**Premier Inn**  
**9-16 Blackfriars Street, Hereford, Herefordshire**  
**HR4 9HS**



For more information or ordering see [www.mfn.li/books](http://www.mfn.li/books)

**Courses available at MFN:**

- ▶ Shot Peening L1-L3 FAA accepted!
- ▶ Practical Shot Peening
- ▶ Flap Peening FAA accepted!
- ▶ Blast Cleaning & Surface Preparation
- ▶ Residual Stress Measurement
- ▶ Tumbling & Vibro-Finishing FAA accepted!
- ▶ Surface Enhancement Technologies
- ▶ CONSULTING: Shot Peening