


Schedule: 17th MFN Asian Shot Peening Workshop 2017

BASIC / L1: 5th of December, 2017 Description about the courses at: www.mfn.li/workshop/courses

Time	Subject	Course	Official MFN Trainer
8:00-8:10	-Official Opening of Basic Course / L1	-----	F-Xavier Abadie
8:10-8:55	-Introduction to Peening	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
8:50-9:30	-Intensity requirements & verification	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
Morning Break (35 minutes)			
10:05-10:45	-Coverage & Inspections	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
10:45-11:25	-Wheel Shot Peening Machines	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
Lunch Break (45 minutes)			
12:10-12:50	-Compressed Air Shot Peening Machines and Nozzles	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
12:50-13:30	-Peening Media	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
Afternoon Break (30 minutes)			
14:00-14:40	-Performing and Documentation	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
14:40-15:05	-Repetition for Basic Shot Peening Course	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie
15:05-15:45	-Test for FAA Approved certificate	Basic, FAA C-IND-IM-120312-K-006-001	F-Xavier Abadie


BASIC / L1: Separate Evening Course for Practical Shot Peening

16:00-18:00	Media Evaluation 1. Saturation curve development (Introduction) a) Parameters Setup up, b) Development of Saturation Curve (Almen Strips), c) Progressive Saturation Curve software 2. Exposure to different media types a) Cast Steel, b) Conditioned Cut Wire, c) Glass Bead, d) Ceramic 3. Examination of deformed shot a) Review criteria for defective particles, b) Conduct fracture counts 4. Equipment /Hardware Review a) Sieves, b) Rotap Separator, c) 20x Microscope	 <p style="text-align: center;">CNC machine used in training</p>	Khoo Jin Hui (Jeff)
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INTERMEDIATE / L2: 6th of December, 2017 Description about the courses at: www.mfn.li/workshop/courses

Time	Subject	Course	Official MFN Trainer
8:00-8:10	-Official Opening of Intermediate Course / L2	-----	F-Xavier Abadie
8:10-8:55	-Intensity L2	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
8:50-9:30	-Saturation curve and verification exercise	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
Morning Break (35 minutes)			
10:05-10:45	-Coverage L2	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
10:45-11:25	-Engineering a Peening Process	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
Lunch Break (45 minutes)			
12:10-12:50	-Key Component Peening in Reciprocating Engines	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
12:50-13:30	-Peening Media	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
Afternoon Break (30 minutes)			
14:00-14:40	-Preparing for Shot Peening Audits	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
14:40-15:05	-Repetition for Intermediate Shot Peening Course	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie
15:05-15:45	-Test for FAA Approved certificate	Intermediate, FAA C-IND-IM-120312-K-006-002	F-Xavier Abadie

INTERMEDIATE / L2: Separate Evening Course for Practical Shot Peening


16:00-18:00	Machine Components and Intensity Determination 1. Equipment / Hardware Review a) Robotic Shot Peening Machine: Review major machine components (Robot/Spindle, Reclaim/Sieve), Review Process control (Air, shot, velocity) b) Almen Strips and Holders: Different almen strips types C,A,N, Block and types of almen fixtures (Photos) 2. Generate a simple almen strip program with a single almen block on the turntable a) Run various almen strips b) Plot automated saturation curve using software c) Demonstrate how changing parameters (air pressure, shot flow, angle affect peening intensity)	 <p style="text-align: center;">CNC machine used in training</p>	Khoo Jin Hui (Jeff)
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Schedule: 17th MFN Asian Shot Peening Workshop 2017

ADVANCED / L3: 7th of December, 2017 Description about the courses at: www.mfn.li/workshop/courses

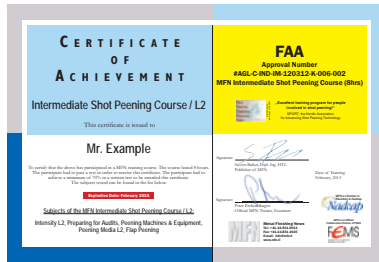
Time	Subject	Course	Official MFN Trainer
8:00-8:10	-Official Opening of Advanced Course / L3	-----	F-Xavier Abadie
8:10-8:55	-Residual Stresses & their Measurement	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
8:50-9:30	-Fatigue & Stress Corrosion	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
New Topics! Completely revised!			
Morning Break (35 minutes)			
10:05-10:45	-Optimization of the Shot Peening Process	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
10:45-11:25	-Shot Peening Process Improvement	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
Lunch Break (45 minutes)			
12:10-12:50	-Alternative Peening Technologies Part 1	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
12:50-13:30	-Alternative Peening Technologies Part 2	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
Afternoon Break (30 minutes)			
14:00-14:40	-Conducting a Shot Peening Audit	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
14:40-15:05	-Repetition for Advanced Shot Peening Course	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie
15:05-15:45	-Test for FAA Approved certificate	Advanced, FAA C-IND-IM-120312-K-006-003	F-Xavier Abadie

ADVANCED / L3: Separate Evening Course for Practical Shot Peening

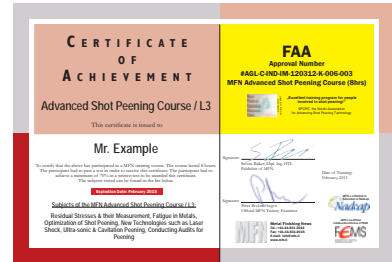
16:00-18:00	Coverage Determination and Part Programming Techniques 1. Equipment / Hardware Review a) Coverage: 20X, 10X. Visual: Tracer b) Peening Nozzles: Rotary Lance, Straight Nozzles (Showcase) 2. Coverage evaluation a) Develop simple program to simulate peening by varying the federate and then at a fixed feed rate: Peen test coupon and to demonstrate different views of coverage	 <p style="text-align: center;">CNC machine used in training</p>	Khoo Jin Hui (Jeff)
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Basic / L1 Certificate indicating FAA Ref. Nr.



Intermediate / L2 Certificate indicating FAA Ref. Nr.



Advanced / L3 Certificate indicating FAA Ref. Nr.

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