

Syllabus

Elasticity Laminate Checker (ELCH)

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	Invisible	Testing.	Visible	Innovation.
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Definition of the related	Overview of linked	Service Bulletin
documentation	documents	Structural Repair Manual
(0,5h)		Non-Destructive Testing
		Manual
		Maintenance Plan Document
Device overview	Description of the single	ELCH handheld
(1,0h)	parts	Air supply
		Functional Standard FS1
	Maintenance of the ELCH	Rubber replacement
	Concret Conditions	Yearly Check / Calibration
	General Conditions	Climate conditions
	Operating Principle	Cleanliness of the workplace
	Operating Principle	techniques
	Adjustment	Pressure Adjustment
	Aujustinene	Measurement Adjustment
Area of application	Parts of the Aircraft	Qualified parts for ELCH
(1,0h)		inspection
		Specific NTMs
	Honeycomb	Types of Honeycomb
		Rudder Structure
		Configurations
		Structural Limits for ELCH
		measurements
	Honeycomb Damages	Internal disbonding
		External disbonding
		Vertical Core tearing
Increation	Droporation	Horizontal Core tearing Limitations of the ELCH
Inspection (1,5h)	Preparation	
(1,51)		Geographical limitations Pre-check of the honeycomb
	Inspection	Measurement Grid Sizes:
	Inspection	Introduction of three
		different sizes
		Distance to fasteners, dents,
		honeycomb joints, edges
		Introduction of yellow and
		red values
		Basic Inspection Procedure
		Detailed Inspection of Areas
		with warnings and errors
		Final inspection for
		differentiation of errors to
		irregularities in thickness
		Damage Mapping

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Elasticity Laminate Checker - Practice					
ELCH Description (0,5h)	ELCH handheld	Suction cup Distance measuring system Measurement Tip Release Key Vacuum Gauge			
	ELCH check-up	Functional Check Functional Standard Pressure regulation			
Maintenance (0,5h)	Rubber replacement	Replacement of the rubber Sensitization for mistakes			
Complete Inspection (2,5h)	Set-Up	Set-up for maintenance usage			
	Inspection of a special test specimen	Basic inspection procedure Detailed inspection procedure for indicated warnings Final inspection of given damages Mapping of damage			
Mapping of different damages (0,5h)	Mapping of different damage scenarios	Mapping on edges Mapping around core fillers Mapping on undisturbed sandwich structures			

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