

Syllabus

Tap Test Inspection

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	Invisible	Testing.	Visible	Innovation.
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Tap Test Inspection -Theory				
Definition of the related documentation (0,5h)	Overview of linked documents	Service Bulletin Structural Repair Manual Non-Destructive Testing Manual Maintenance Plan Document		
Device overview Tap Test and Woodpecker (0,5h)	Description of the single parts	Tap Hammer Woodpecker Cleanliness of the workplace		
	Operating Principle	Differentiation to other techniques		
	Calibration Woodpecker	Measurement Adjustment Calibration block PN 99A55407291000		
Area of application (1,5h)	Parts of the Aircraft	FRP (Monolithic and Honeycomb) Specific NTMs		
	Honeycomb	Types of Honeycomb Rudder Structure Configurations Structural Limits for Tap Test and Woodpecker measurements		
	Type of Damages and detectable damages	Delaminations Internal disbonding External disbonding Vertical Core tearing Horizontal Core tearing		
Inspection (1,5h)	Preparation	Geometrical limitations Pre-check of the structure		
	Inspection	Basic Inspection Procedure NTM51-10-03 and NTM51-10- 19 Measurement Grid Size Tap test patterns, distance to edges Woodpecker: Introduction of green, yellow and red values Damage Mapping		

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Tap Test Inspection - Practice					
Complete Inspection (2,5h)	Set-Up	Woodpecker calibration and set up on structure			
	Inspection of a special test	Basic inspection procedure			
	specimen	Monolithic FRP Structures			
		Honeycomb Structures			
		Mapping of damage			
Mapping of different	Mapping of different	Mapping on edges			
damages (1,0h)	damage scenarios	Mapping on undisturbed sandwich structures			

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