

Syllabus

Tap Test Inspection

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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

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