

Aerospace NDT Boards' Forum

Secretariat provided by the European Federation for NDT

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Foreword

Since last revision of EN4179 (Edition P5)/ NAS410 (Rev4) a new paragraph 8.6 was implemented:

“§ 8.6 Annual Maintenance

The employer shall develop and implement a documented annual process to verify technical proficiency for each method during the certification cycle for all levels of personnel processing or inspecting hardware.”

This issue was discussed in the European Forum and it was agreed to develop a proposal for a common front sheet which can be used as a guideline in view of harmonisation in the aviation industry in Part 145 and Part 21 organizations.

Due to the huge differences in the daily NDT work in each company it is strongly recommended that each responsible Level 3 prepares individual checklists for each method in which the annual assessment is performed.

Those applicable checklists should be attached to the common front page for audit reviews.

The company written practice should additionally define following requirements:

- Rules for assessment schedule
- NDT inspector fails during assessment
- Assessor requirements

Note:

1. The annual assessment is not required in the year, in which the regular 5-year re-qualification is due.
2. The NDT individual pass the assessment if he reaches 80% of the rating points.

Common front page is shown on page 3

Proposals for checklist points are shown on page 4 and 5.

Annual Assessment Review of Level 1, Level 2 and Level 3* Personnel

(* Where use of NDT Equipment and acceptance/ rejection of hardware is part of Level 3 duties)

Applicant Data:

Name:

Personal No:

Department:

Employer:

Reviewer Data:

Name:

Method & Level:

Employed or assigned by:

NDT Method:

RT	<input type="checkbox"/>
UT	<input type="checkbox"/>
ET	<input type="checkbox"/>
MT	<input type="checkbox"/>
PT	<input type="checkbox"/>
IRT	<input type="checkbox"/>
ST	<input type="checkbox"/>

Level of Authorisations:

Level 1 Limited ☐

Level 1 ☐

Level 2 ☐

NDT documents used during assessment:

NDT technique performed during assessment:

Assessment criteria's:

Item	Criteria in regards to:	Applicable to assessed Person (Yes/ No)	Notes:	Requirements fulfilled (Yes/ No) or (N/A)
1	Regulation & Contract	<input type="checkbox"/>	Only applicable for some Part 145 NDT individuals if they work away from home base	<input type="checkbox"/>
2	NDT Procedures	<input type="checkbox"/>	NDT individual must use current documents/ procedures	<input type="checkbox"/>
3	Equipment & Material	<input type="checkbox"/>	Storage, calibration, preparation of NDT equipment. Preparation for inspection.	<input type="checkbox"/>
4	Inspection (**)	<input type="checkbox"/>	Assessment criteria's are company specific issues and should be performed with a checklist. Samples are shown attached pages	<input type="checkbox"/>
5	Evaluation (**)	<input type="checkbox"/>	Only applicable if inspected part shows relevant indication during assessment	<input type="checkbox"/>
6	Report & Documentation	<input type="checkbox"/>	As per employer requirements	<input type="checkbox"/>
7	Vision Requirements	<input type="checkbox"/>	Valid annual acuity and colour vision certificate must be available	<input type="checkbox"/>
8	Continuous Experience	<input type="checkbox"/>	Records of previous/ current experience hours must be available	<input type="checkbox"/>
9	Certification/ Recertification	<input type="checkbox"/>	Valid Certification/ re-certification documents must be available	<input type="checkbox"/>

(**) No significant errors in inspection and evaluation are acceptable. All indications (if any) must be correct evaluated.

Final Acceptance and Signatures:

Comments: (if applicable)				
Date:	Applicant Signature	Assessor Signature	Final acceptance	
			Pass	Fail

Note:

It is understood that the following proposed assessment rating points in each method are different in each company and pending from the daily work of the NDT individuals. The responsible Level 3 shall define such a checklist in the written practice. It is recommended to attach each individual checklist to the front page and file for review.

Selected Part for Inspection ^(a)	Part number:	Serial Number

^(a) Parts with known defects may be used. In this case, the evaluation of indications is part of the assessment

PT-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
	Select correct equipment			Wash/ Emulsifier	
	Control Panel preparation			Parameter met as required	
	Black light check			Drying process	
	Ambient/ white light check			Developer application	
	Inspection area cleanliness			Indications	
	Control panel check			Evaluation of indication	
	Fill out process control sheet			Documentation as required	
	Part cleaning			Reporting and recording	
	Penetration application / dwell			Part cleaning	
	Min./ Max time				
Comments:				Final scoring: Candidate should achieve minimum 80 % of the maximum rating points	Pass Fail

PT-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
	Select correct equipment			Wash/ Emulsifier	
	Control Panel preparation			Parameter met as required	
	Black light check			Drying process	
	Ambient/ white light check			Developer application	
	Inspection area cleanliness			Indications	
	Control panel check			Evaluation of indication	
	Fill out process control sheet			Documentation as required	
	Part cleaning			Reporting and recording	
	Penetration application / dwell			Part cleaning	
	Min./ Max time				
Comments:				Final scoring: Candidate should achieve minimum 80 % of the maximum rating points	Pass Fail

ET-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
	Select correct equipment			Sensitivity at regular intervals	
	Correct reference material			Indications	
	Calibration status of equipment			Evaluation of indication	
	Set-up of equipment			Documentation as required	
	Application of Teflon tape			Reporting and recording	
	Inspection area cleanliness				
	Paint condition / thickness				
	Identification of correct insp. area				
	Sensitivity settings				
	Probe handling				
Comments:			Final scoring: Candidate should achieve minimum 80 % of the maximum rating points		Pass Fail

MT-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
	Select correct equipment			Ink check	
	Check if Part is magnetic			Field measurement	
	Black light check			Magnetized as per instructions	
	Ambient/White light check			Ink application and observation	
	Inspection area cleanliness			Indications ^b	
	Performance check of bench			Evaluation of indication	
	Fill out process control sheet			Documentation as required	
	Part condition			Reporting and recording	
				Demagnetization and cleaning	
Comments:			Final scoring: Candidate should achieve minimum 80 % of the maximum rating points		Pass Fail

RT-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
	Safety regulation respected			Indications	
	Personal Dosimeter			Evaluation of indication	
	Position of object, film and tube			Film handling	
	Correct exposure data			Film storage	
	Penetrameter position				
	Film marking				
	Darkroom bath control				
	System control				
	Darkroom adaptation				
Comments:			Final scoring: Candidate should achieve minimum 80 % of the maximum rating points		Pass Fail

UT-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
	Select correct equipment			Indications	
	Correct reference material			Evaluation of indication	
	Calibration status of equipment			Verification of findings	
	Set-up of equipment			Cleaning of couplant	
	Sensitivity setting			Documentation as required	
	Paint / surface condition			Reporting and recording	
	Application / use of couplant				
	Identification of correct insp. area				
	Probe handling				
Comments:				Final scoring: Candidate should achieve minimum 80 % of the maximum rating points	Pass Fail

IRT-Method					
Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)	Tick if applicable	Detailed Assessment points	Evaluation Rating points (1-10)
No completed at this time					
Comments:				Final scoring: Candidate should achieve minimum 80 % of the maximum rating points	Pass Fail

Revision Status

Rev. No.	Release Date	Page/ Pages	Description
01	28. Nov 2017	All	First Issue