

Beyond the Inspection

Building NDT capability for U.S. Coast Guard aviation readiness

Five years of hands-on training, industry partnership, and a commitment to flight safety



NDTS
NDT SOLUTIONS



"First in Flight, First in Service"

The mission behind the training

Coast Guard aviation depends on aircraft that can launch safely, often in demanding environments and on compressed timelines.

NDT gives maintainers evidence about structural condition before hidden damage affects availability or safety.

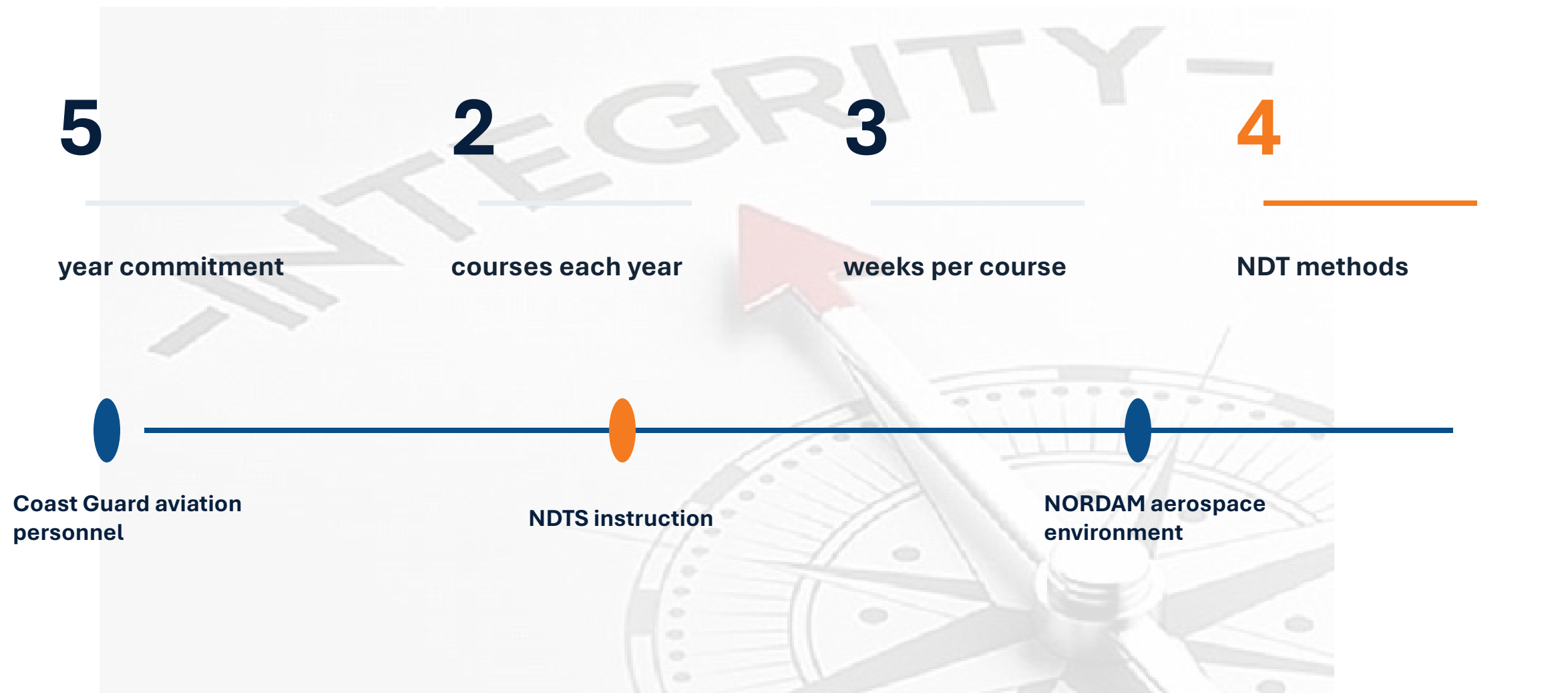
NDT

evidence for the
maintenance
decision

Readiness tool

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The five-year training partnership



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Why an active aerospace environment matters

Classroom

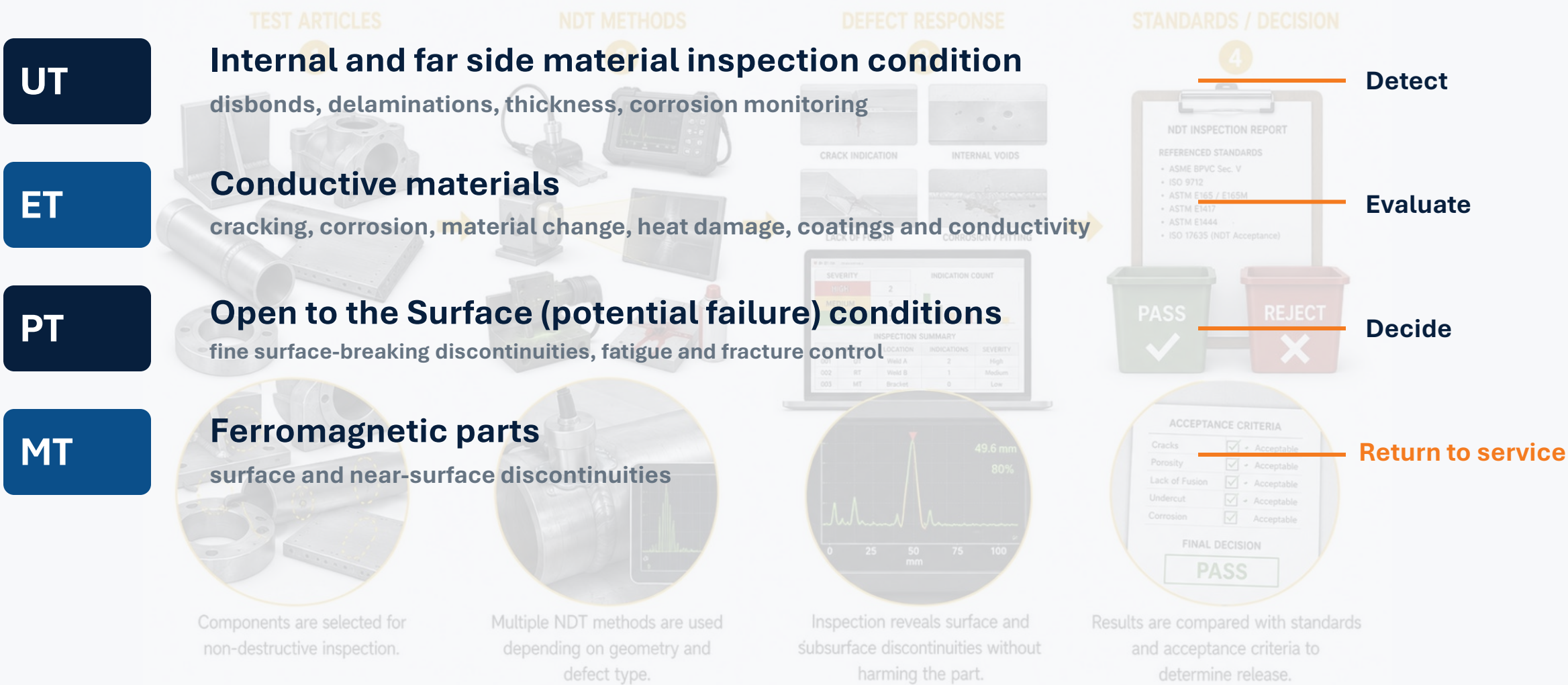
————— Aircraft structures

————— **Repair decisions**

Students connect inspection theory to the material condition, access constraints, process controls, and consequences found in aerospace maintenance.

They see where the inspection fits in the full maintenance process.

Four methods, one inspection objective



The training progression



Each step adds control over variables that can change the result.

Hands-on repetition turns a procedure into dependable execution.

Inspection judgment

What damage am I trying to detect?

Why does this method fit the structure?

Which variables can change the response?

What does the indication mean?

What follows if I miss it?

1

Equipment operation

2

SKILL

3

Inspection judgment

4

CAPABILITY

5

Aircraft damage and method selection

Damage condition	Candidate method	Technique consideration
Fatigue cracking	ET / PT / MT	material and access determine technique
Corrosion or material loss	ET / UT	depth, geometry, and coverage matter
Disbond or delamination	UT	bond construction drives response
Surface-breaking defect	PT / MT / ET	material and surface condition govern choice
Impact or structural damage	UT + complementary methods	inspection plan follows structure and damage

The value of industry partnership



The partnership connects military maintenance requirements with real aerospace inspection experience.

What students take back to the fleet

1

Stronger command of NDT fundamentals

2

Confidence with setup and standardization

3

Better recognition of relevant indications

4

Respect for method and technique limitations

5

Clearer method-selection reasoning

6

Greater awareness of inspection consequences

The result is a more informed maintainer who understands both the instrument response and the decision it supports.

Readiness, reliability, and flight safety



Training strengthens the earliest link, where knowledge becomes consistent inspection practice.

Every later outcome depends on the quality of that conversion.

Investing in the inspector

Technology continues to change how we inspect aircraft.

**Every inspection still depends on the knowledge, judgment,
and capability of the person performing it.**

The five-year partnership builds sustainable NDT capability within the Coast Guard aviation community.

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Questions

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Aircraft Composite Inspection 40 Hour Course

Register in October- www.ndts.com



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