

2022 NDI Working Group (WG) CLASS DESCRIPTIONS

-1/-2 Q&A

Mr. Cory Bridges & Mr. Walter Matulewicz

Will discuss changes to the 33B-1-1/33B-1-2 and answer question attendees may have.

ACC Breakout

MSgt Mintier / MSgt Brian Heers

ACC breakout is designed to discuss relevant topics between the field representatives and MAJCOM Functional

ANG Breakout

MSgt Ryan Mungavin

Will discuss ANG specific topics between the Functional Manager and field units of the ANG.

Aircraft Structural Integrity Program - ASIP

Ward Fong

Instructors will discuss the how aircraft structural integrity is managed and the critical role NDI plays in maintaining structural integrity and aircraft safety. Understanding structural integrity is a critical skill for NDI technicians.

AR & UT Mapping Demos

AR Demo: (Lt. Sahlender) Augmented Reality is an emerging capability that can superimpose Tech Orders, equipment settings, and other attributes in your field of view as you are accomplishing your inspection using a specialized headset. Please stop in to try this new capability, currently targeting bolt-hole eddy current, and provide feedback on how to make it work for you.

UT Mapping: (Mr. Nick Wandro) Demonstrating a tracker that automatically maps UT inspection results using hand-held UT inspection equipment

BHEC Prep, Setup & Standardization

Mr. John McClure/Andy Lerman/ Ryan Mooers/Richard Duin/ Tyler Estrada

Provides instruction on bolt hole eddy current, including bolt hole eddy current physics, setup (specifically T.O. 33B-1-2 WP 404 00 and WP 405 00), display explanation, importance of filters, and proper inspection technique

*BHEC Signal Interpretation

Mr. Andy Leman/Mr. John McClure

(BHEC Prep, Setup & Standardization prerequisite required)

Provides instruction on bolt hole eddy current signal interpretation using T.O. 33B-1-2 WP 404 00 and training specimen that represents various hole conditions inspectors typically encounter during inspection (cracks, damage, etc.). Overview and hands on inspection of each hole/condition, showing the correlation between certain hole conditions and their associated signals.

BM 600 Familiarization

Olympus representative &/or Mr. Scott Bailey

This course will cover the basics of Olympus' newest Bondtesting inspection unit, the Bondmaster 600. The course will demonstrate the core differences between the BM600 and other ultrasound inspection units, such as the external layout and the new features that have been added. Course will be hands-on and go through system setup.

Carestream Industrex Review and Process Controls

Carestream Rep.

Overview of Carestream INDUSTREX software features for basic IP scanning, file management, image viewing, and image transfer. Includes information for scanner maintenance. This session also provide a review of the AF CR Process Controls using Carestream INDUSTREX software

CR 101

Mr. Ryan Mooers

The class will cover basic digital imaging concepts, how the CR system works, operator controls and tools, image processing fundamentals, CR vs film (pros/cons and technique differences), system use and maintenance, process controls, and basic steps of image evaluation

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EC Conformal Probes

Mr. Ward Fong

This class provides an overview of conformal eddy current probes implemented for use on the F-22, F-16 and F-35. Set-up, inspection and signal interpretation using T.O 33B-1-2 procedures will be addressed.

ECS 3/5

Mr. Nick Wandro

This course will give basic knowledge of on how to use the advanced surface eddy current scanner. This advanced scanner was designed to provide better capability and reduce inspection time for some of the more time consuming inspections. Advancements in sensing technology have given us the ability to create C-scan maps for eddy current inspections for these specific applications.

Epoch 650 Familiarization

Mr. Eleazar Morales

This course will cover the basics of Olympus' newest Ultrasound inspection unit, the EPOCH 650. The course will demonstrate the core differences between the EPOCH 650 and other ultrasound inspection units, such as the external layout and the new features that have been added. Course will be hands-on and go through system setup.

Equipment 101

Mr. Tyler Estrada

This course will provide an overview on NDIO Message 04-2-201 NDI Equipment Evaluation. Other topics to be discussed included understanding the difference between a Master NSN and Actual NSN. How to submit an AF 2005 (equipment Issue/Turn-in request), How to review your units D035 Backorder requests, How to review your current DPAS authorization allowance and in-use numbers, how and when to submit an AF 601 (Authorization Increase), and reviewing your R14.

East River Road (ERR) Additive Manufacturing (AM) Tours

Dr. Sathish (UDRI Contractor)

This session will provide a tour of UDRI AM facilities and the work being completed on behalf of the Air Force to advance AM and the inspection of AM parts.

Lab Management

MSgt Simmons/MSgt Izaguirre/SMSGt Billy Osullivan

Geared towards all section chiefs looking to improve their work center, regardless of experience.

Military to Civilian NDT Transition

Mr. Damaso Carreon & SMSgt Billy O'Sullivan

Overview of the Military to civilian transition process and requirements for military units to have successfully acquire an NDT Job

Military to Civilian NDT Transition Q&A

Mr. Damaso Carreon

OO-ALC Breakout

Mr. Ward Fong / Mr. Andy Lerman

OO-ALC NDI Manager will be lead the breakout to answer questions and discuss concerns

OC-ALC Breakout

Ms. Dianne Rabourn

AFSC/OC-ALC NDI Manager will be lead the breakout to answer questions and discuss concerns.

OAP Status

MSgt Marcel Wiltz

Overview of OAP program will be discussed along with introduction of new personnel. Discussion will include current equipment, issues, new equipment, technical orders, software update and requirements, etc. AF OAP Program Management Office will be available for questions related to the AF Oil Analysis Program.

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QA Program

MSgt Izaguirre & MSgt Simmons

Structured training for having a successful QA Program

Shop Chief 1-ON-1 SIGN UP ONLY!!

MSgt Simmons / MSgt Izaguirre / SMSgt Billy O'Sullivan

Individual discussion with shop chiefs to talk Equipment Procurement, Backorders, Program Management, answer questions, etc. Shop Chiefs should bring documents that they want reviewed. I.e. DPAS inventory reports or radiation safety documents

Theory of PAUT

Mr. Walter Matulewicz

This session presents introductory information about the phased array ultrasonic technique. Basic theory and application information will be presented as well as hands-on demonstration. Provide a demonstration of the Olympus Omniscan

Theory of UT Composite Inspections

Mr. Jeffrey Register (Sonatest UT instruments)

This session presents the theory of UT composite inspections. Basic theory and application information will be presented for inspection composite materials with traditional UT and advanced PAUT methods. Instructor may provide a demonstration of Sonatest UT and PAUT equipment.

UT Defect Mapping

Mr. Richard Duin / Mr. Cory Bridges

This session will cover hands-on defect mapping on metallic specimens and cover the techniques used for accurate mapping of defects. Course will utilize USN-60s for hands-on training.

USAF CR Flex II Training Modules Part A

Mr. Tyler Estrada

This session will cover Waygates (Formerly GE) CR Flex II training modules 1-3 developed by the NDIO. Training will go through how to find the modules on the NDIO Technical Community sharepoint

site. Modules one through three features information on how to unpack and connect your CR Flex II system, How to handle your IPs, and how to use the Rhythm RT software to acquire images.

USAF CR Flex II Training Modules Part B

Mr. Tyler Estrada

This session will cover Waygates (Formerly GE) CR Flex II training modules 4-5 developed by the NDIO. Training will go through how to find the modules on the NDIO Technical Community sharepoint site. Modules 4 through 5 features information on the setup, basic operations, advanced operations, and performing process controls on the CR Flex II system. Course will utilize Waygate (GE) desktops to guide students through the software operations.

VMI Starrview Review

VMI Representative

Overview of VMI Starrview software features for basic IP scanning, file management, image viewing, and image transfer. Includes information for scanner maintenance.

VMI Process Controls

VMI Representative

This session details the review and evaluation of the AF CR process controls using VMI Starrview software.

VR BHEC Case Study Session 1-4

Mr. Drew Bowers & Mr. Joshua Latham (UDRI Contractors)

This session will provide students with an overview of Virtual Reality (VR) equipment. Students will go through a Bolt-Hole Eddy Current (BHEC) Training simulation to develop skills in performing BHEC. The simulation goes through setup and standardization, as well as, aircraft specific training. Student will then go through a proficiency study to determine if VR training provides benefits to proficiency. **NOTE:** Each Session is limited to four participants and requires 3.5 hours (most of a day). For this reason participants will receive a custom AM printed model of the F-22.

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Waygate (GE) CR Flex II Troubleshooting and Rhythm Review

General Electric representative

Overview of Waygate's (formerly GE) Rhythm Review software features for basic IP scanning, file management, image viewing, and image transfer. Includes information for scanner maintenance.

Weld Cert. Theory

Mr. Steven Joyce

Attendees will be provided with an overall understanding of the welder certification radiographic inspection process. Includes proper exposure setup, film radiograph & CR image quality requirements, film radiograph & CR image evaluation, weld defect examples, interpretation of indications, measurement of indications, and understanding of T.O. acceptance/rejection requirements.

***Weld Cert Interp. Hands On**

Mr. Steven Joyce / Mr. Walter Matulewicz / MSgt Simmons

Attendees will have the opportunity to look at several tube butt joint weld CR images. They will step through the process of making determinations as to the quality of the radiograph, have the opportunity to see various weld defect examples, practice taking measurements of indications, and practice making accept/reject determinations based off of T.O. requirements. Course will utilize Waygate (GE) desktops to guide students through the software operations.

WR-ALC

Mr. Nicholas Bunnell

WR-ALC NDI Manager will be lead the breakout to answer questions and discuss concerns.