C-UAS & EW Tactical Development Courses

IMPERATIVE SYSTEMS

WHEN THE MISSION IS ESSENTIAL
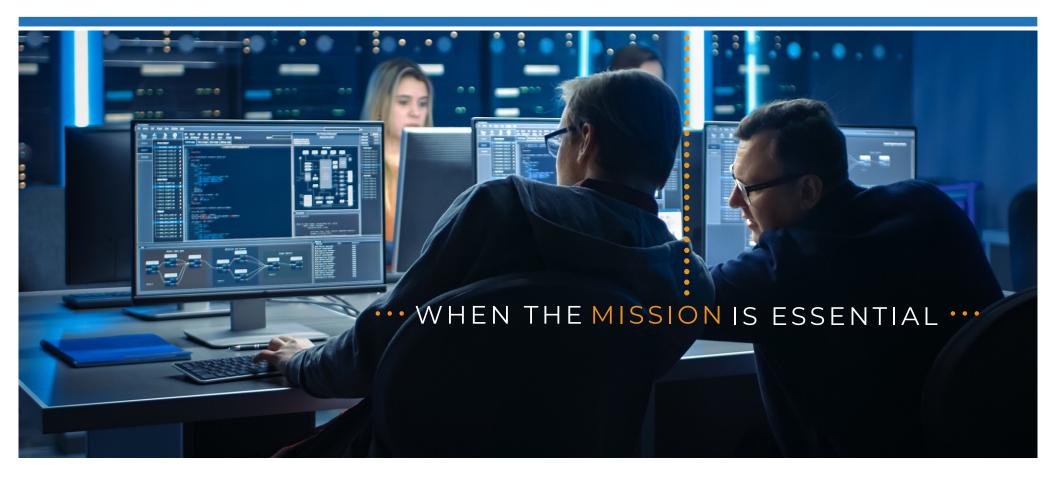
Imperative Systems Counter UAS Training Courses

Systems agnostic mobile and dismounted C-UAS training focused on tactical development and hard skills fieldcraft training to increase survivability in the UAS threat environment

Foundation Course

- C-UAS Tactical Development Course "CTDC"

Mobile Training Team Unit Training

- C-UAS Basic Reconnaissance Training
- C-UAS Amphibious Reconnaissance Training
- C-UAS Infantry Operations Training
  - Mounted
  - Dismounted
- EW/SIGINT, CUAS & Open IO Terminal Guidance Training

Advanced Courses and Support

- Near Peer Group 2, 3 & 4 UAV Defense Course (Course is Classified at TS Level)

Imperative Systems Counter sUAS Training Courses

Systems agnostic tactical sUAS/UMS training focused on augmenting a unit's lethality through the augmentation of tactical UAS and UMS systems.

UAS Tactical Operations Courses

- Augment UMS CBQ Course
- Weaponized Group 1 UAS Course
- Signature Reduction SUAS Course *Spring 2023*
- 4G LTE, 5G cell phone network non-attributional drone building course *Spring 2023*

EW/ SIGINT Training

Through our partnerships with Phoenix Global Support and Radio Reconnaissance Technologies we can provide system agnostic tactical EW/SIGINT training on MODES 1-6 for remote, ground and air operations. These courses are taught in classroom and field environment with capability to integrated into unit full mission profile exercises.

Through our partnerships we are uniquely positioned recruit and select the top SOF and SMU EW/SIGINT enablers in the community for follow-on Imperative Systems training to fully support worldwide operations with tactical EW Operators

Tactical EW/SIGINT Operations Courses

- RF Theory
- GSM Theory
- CDMA Theory
- UMTS Theory

- LTE Theory
- 5G NR Theory
- Satellite Communication
- 802.11 Theory

- Antenna Theory
- Rover Operations
- Cellular Pattern of Life
- STG/PGL

Data Management & Signature Reduction Training

Through partnerships we can train personnel or teams on Open Source/AdTech Data Tracking, Clandestine Data Management, Clandestine Communications and overall Signature Reduction Operations. These courses are taught in both classroom and field and can be integrated into larger unit full mission profile exercises

Tactical EW/SIGINT Operations Courses

- Operators Signature Management

- Improvised Counter Measures

- Improvised Edge Communications

Tactical Training Facility Partnerships

1. Panthera Training Center, Old Fields West Virginia
2. Summit Point Training Center, Summit Point West Virginia
3. Crucible Training Center, Fredericksburg Virginia
4. T1G, Memphis Tennessee area
5. Constellis Academi, Moyock North Carolina
6. Stronghold Training Center, Destin Florida
7. Mobile Training Teams

Our training courses are modular and tailorable to completely integrate into any other hard skill combat training a unit desires to attend through any of our training facility partnerships.

Our Mobile Training Team augments a unit's existing training or field operations and is tailorable to the units needs at any location.

Counter UAS Tactical Development Course
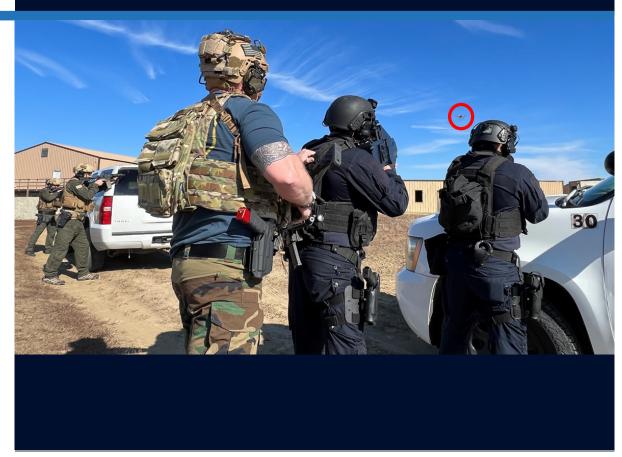## CTDC

The Counter UAS Tactical Development Course is a 7-day course.

- 2-days at home station training

- 3-days hard skills tactical training

    - Drivers Training

    - Firearms Training

- 2-days full mission profile operations with red team UAS interjected into missions

Units will conduct three full mission profile lanes that are designed to develop their C-UAS SOPs while still being expected to complete their mission.

CTDC culminates in a live-fire exercise where units will be expected to defeat red team UAS

Counter UAS Tactical Development Course
CTDC

2 Day at Unit MTT

1 Day Intro to UAS and Threat Briefing

1 Day Mobile Counter UAS System Training

5 Day Tactical Training Facility
Days 1-3 Tactical Hard Skills Training
Units' choice from training facilities training catalog

- On-Road Tactical Driving
- Off-Road Tactical Driving
- Tactical Carbine
- Tactical Pistol
- CQB
- Medical
- Breaching

2 Days
Days 4-5
Full Mission Profile Day and Night with UAS interjected into the operations

Mobile Training Team

- C-UAS Basic Reconnaissance Training
- C-UAS Amphibious Reconnaissance Training
- C-UAS Terminal Guidance Training
- C-UAS Infantry Operations Training
  - Mounted
  - Dismounted

Counter UAS Basic Reconnaissance Training

C-UAS Basic Reconnaissance training program is a MTT or can be held at one of our partner tactical training facility locations.

We work with teams on how to augment C-UAS into their basic and or urban reconnaissance operations in high threat UAS and UAV environments.

Teams are trained on how to employee man-packable and wearable C-UAS equipment, employee/practice signature reduction techniques and develop their C-UAS and C-UAV SOPS to increasee mission success and survivability in the enemy UAS and UAV domain

The C-UAS GCS Terminal Guidance Course can be added to this course and will train units on how to find, fix and locate UAS and UAV controller teams.
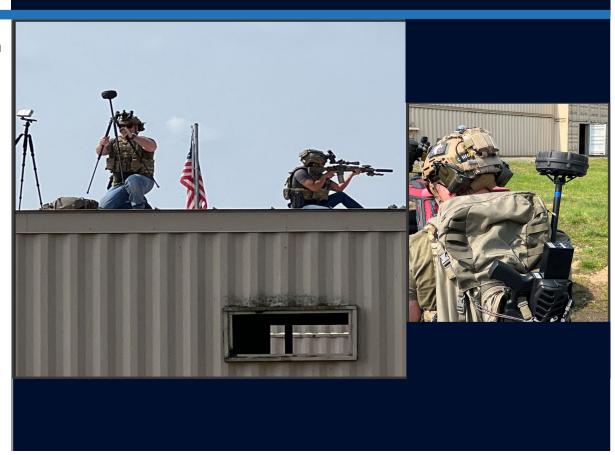
EW/SIGINT Reconnaissance Training

EW/SIGINT Basic Reconnaissance training program is a MTT or can be held at one of our partner tactical training facility locations.

We instruct teams on how to augment EW/SIGINT into their basic and or urban reconnaissance force protection posture.

This training can also be layered with C-UAS, S-UAS, Signature Reduction and any hard skills training required.

Counter UAS Amphibious Reconnaissance Training

The C-UAS Amphibious Reconnaissance training program is a MTT course that trains amphibious reconnaissance teams on how to conduct amphibious reconnaissance operations in an enemy UAS and UAV domain.

The essential elements taught in the C-UAS Basic Reconnaissance program are the foundation of this course while considering other operational variables that must always be considered in maritime operations.

The C-UAS GCS Terminal Guidance Course can be added to this course and will train units on how to find, fix and locate sUAS, UAV and UMS controller teams
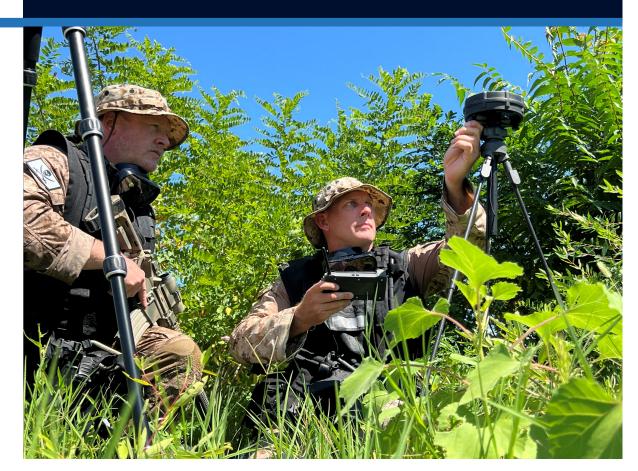
EW/SIGINT Amphibious Reconnaissance Training

The EW/SIGINT Amphibious Reconnaissance training program is a MTT course that trains amphibious reconnaissance teams on how to support amphibious reconnaissance operations while conducting EW/SIGINT force protection overwatch or targeting operation.

This course can be layered with C-UAS, S-UAS, Signature Reduction and any hard skills training required.

Terminal Guidance Course

The Terminal Guidance Course is designed to train personnel on how to employee C-UAS and other EW/SIGINT equipment along with unclassified and classified data sources to not only defend against the nefarious actors but to also find, fix, located and remove them from the battlefield.

This course is tailorable to fit the specific needs of units with the authorities to conduct offensive targeting operations.

The methodologies taught in this course can be taught at both classified and unclassified levels.

Group 3 & 4 UAV Defense Course

- Top Secret Level Course only taught in SCIF.

- PoI covers near peer and insurgent Group 2, 3 & 4 UAV and loitering munition systems and classified detect and defeat methods.

  - Russian UAV

  - Iranian UAV

  - Chinese UAV

  - Shia Militia Group UAV

  - Houthi UAV

  - Other IRGC Proxy Actors

<u>UAS Tactical Operations Courses</u>

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UAS Tactical Operations Courses

The Tactical UAS Operations Courses are designed for military units and are offensive operations courses designed to augment UAS and UMS to increase a military unit's lethality.

All courses are tailorable to the unit's needs and current skill level.

Tactical Training Center Partners

Old Field WV

Summit Point WV

Defuniak Springs, FL

Moyock NC

Fredericksburg VA

Memphis TN

Craig Kubala is the Director of Counter UAS Training & Operations for Imperative Systems, LLC. He was a plank owner on Team ICARUS, which was a five-man- DTRA/JIDO, NSA and NRO team stood up in 2016 that used national level assets to geo-locate, track and conduct time sensitive terminal guidance kinetic strikes on over 400 ISIS Group 1 and 2 UAS pilot teams in Iraq, Syria and Afghanistan.

2018/2019 Craig Kubala switched over to a team focused on the Yemen Houthi Group 3 UAV threat. This 8-man Joint Task Force team was responsible for geo-locating, tracking and conducting time sensitive kinetic strikes on an undisclosed number of Houthi UAV pilot and launch teams.

2019/2021 Craig Kubala was on a team that installed defensive counter UAS systems CONUS and OCONUS at some of our nations most sensitive DoD installations and other undisclosed national sensitive sites.

2001/2022 Craig Kubala stood up the first Counter UAS Tactical Development Course. This is a one-of-a-kind full mission profile counter UAS course designed to train tactical maneuver element how to employ mobile counter UAS systems. This course is a SOP development course that is constantly implementing the newest TTPs & SOPs from both friendly and enemy COAs.