



Appendix NN Counter Improvised Explosive Device Integration Cell (CI2C)
Standard Operating Procedures (SOP)

General Overview: The National Training Center (NTC) has established a baseline of capabilities within the mission set of Counter Improvised Explosive Device (CIED) enablers and training capabilities to sustain the vital skills required to effectively employ the growing suite of CIED capabilities. The National Training Center continues to leverage CI2C and CIED training to enhance Brigade Combat Teams (BCT) operational effectiveness in order to counter the effects of IED and similar threats on Army formations. CI2C assets at the National Training Center are utilized both in RSOI training and during each rotation with an average operational tempo of 18 days (4 days RSOI/ 14 days during rotation). NTC trains 10 BCTs annually with the ability to add rotations as directed by FORSCOM. CI2C training occurs during RSOI week focusing on the following equipment: (1) Company Intelligence Support Team (CoIST) Training, (2) Route Clearance Training (3) Counter RCIED Electronic Warfare (CREW) training, (4) Raven SUAS training and employment (5) Tactical Site Exploitation (Search) training (6) Rapid Equipping Force and Escalation of Force Training, (7) Biometrics training (BAT and HIIDE), (8) Battlefield Forensics Training, (9) One System Remote Video Terminal (OSRVT) training during (RSOI 1-4). For each course, the instructors present information that covers general technical details about each system, feedback from theater regarding current TTPs, and current IED activity that can be defeated /degraded by leveraging the capability provided by the C-IED equipment. Hands-on training is then provided to achieve familiarization and demonstrate proper operation of equipment which includes acute focus on technical competency. Once proficient in basic operation skills, Soldiers transition to a location where they employ the equipment in a field environment to further increase their proficiency with the appropriate device/ system. When CI2C training is completed, the equipment will be distributed to the units based upon a predetermined allocation plan submitted to NTC CI2C.

1. Overview

- 1) During RSOI week the CI2C can support training of over 3, 000 Soldiers from the BCT. Early coordination with the CI2C team will enable BCTs to optimize CI2C training opportunities and distribution of CI2C equipment. Initial coordination with units scheduled for rotation generally occurs at the Initial Planning Conference (180 days out), with subsequent meeting opportunities during the PDSS visit (90 days out) and Leader's Training Program (LTP) training. All required training coordination documents are due to the NTC CI2C NLT 45 days prior to your RSOI day 1.
- 2) MISSION: The most essential tasks of the NTC, CI2C Rotational Unit Training Team is to train soldiers, leaders, and units from deploying forces on equipment and associated tactics, techniques, and procedures to defeat IED's. NTC CI2C conducts new equipment and training integration to the BCT during RSOI from vicinity (BLD 851C) in order to prepare soldiers, leaders and units for future deployments.



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3) Hours of Operation:

- 0800-1600, 5 days a week during non-rotational periods
- 0700-1700 during RSOI daily, 7 days a week during rotational periods
- 0800-1600 during TD 1-14 daily, 7 days a week during rotational periods.

A. **Company Intelligence Support Teams (CoIST) training-** CoIST training is one of four classes that due to their operation of systems on SIPRnet at NTC require all students to have a security clearance of Secret or higher (verification through BCT Security roster). This is scheduled as a four day course. The intent is that rotational units receive the latest CoIST Mobile Training Team (MTT) training at homestation from the FT Huachuca based teams out of the New Systems Training Integration Office (NSTIO) prior to arriving to the NTC. Soldiers in this course will learn how to set-up and run a CoIST, capable of facilitating the flow of information to/from the company elements and the BN S-2 by identifying 1) enemy patterns and trends, 2) Threat TTPs, 3) Threat organizational relationships, 4) Terrain (in a COIN environment), 5) Battlefield effects, as well as the ability to produce company level intelligence products such as Intelligence summaries, Enemy (and friendly) activity overlays, Situational maps, and Link analysis diagrams. In addition to the intelligence training, CoIST will also receive training on how to operate the BAT and HIIDE devices by receiving a full day of Biometrics training (RSOI-2) dedicated solely to the CoIST. Additionally, CoIST designated personnel will be trained on the operation of SiPR/NiPR Access Point (SNAP) terminals on RSOI-2 in order to provide connectivity to those CoIST locations where hard wired SiPR/NiPR connectivity is not available. Units must determine which CoIST will receive the 8 SNAPs prior to the first day of CoIST training. On RSOI-3, the CoISTs are trained on the use of the **Tigr laptops**, **AXIS Pro**, and the **One System Remote Video Terminal (OSRVT)**, allowing remote viewing of live video from manned and unmanned aerial vehicles. RSOI-4 is a practical exercise utilizing all the skills acquired from the previous three days of training. Recommended minimum size for a CoIST is 6 Soldiers per team. Class holds up to 75 Soldiers.

B. **Route Clearance-** Provides hands on familiarization training to Route Clearance Teams (RCT) utilizing route clearance vehicles (Buffalos, RG-31s, and Husky mine detectors) as well as some of the recent equipment initiatives utilized in combat (Gyrocam cameras, Vallon VMC-1 and VMR-2 Mine hound, Goldie and RCOS 1 & 2. Units deploying to Afghanistan will receive a 2 day course, while Iraq and Full Spectrum Operation (FSO) rotations will receive a one day 8 hr class. During this training, Soldiers will learn and demonstrate the proper tactics, techniques, and procedures for route clearance operations in urban terrain and rural terrain (mounted/dismounted). The NTC CI2C utilizes the equipment you draw from the NTC prepositioned fleet and/or what you bring from homestation to train on, so early draw of route clearance equipment (Wednesday D-5) is required for all rotational units desiring training on route clearance vehicles. Otherwise, we can only train on the vehicles you provide to us. It is highly encouraged that route clearance platoon leaders and platoon sergeants attend training as part of the target audience. Please note, Soldiers selected as Surrogate Buffalo drivers must be licensed on a M900 series vehicle.

- Terminal Learning Objective: In a Classroom and Tactical environment properly utilize the correct Route Clearance formations in accordance with METT-TC, Intelligence Preparation of the Battlefield, and the 5 W's.



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- C. **Counter, Remote Control Improvised Explosive Device (RCIED) Electronic Warfare (CREW) -** Currently, the NTC CREW install team can install up to 450 surrogate CREW devices (DUKE and CVRJ). On average, an HBCT will need to install 320-350 CREW devices in order to achieve sufficient EW protection against RC-IEDs. All NTC surrogate CREW systems emit a signal that defeats the RCIEDs used by the insurgents at NTC. On average, the Insurgent cell can emplace from 100-140 IEDs during the MRX, many of which are RC-IEDs. CREW training occurs during RSOI 1-4 in 4-hour blocks of instruction. Two classes occurring concurrently are scheduled for the morning and two more in the afternoon. Class size is 75 Soldiers each. CREW courses are designated either as Operator or Leader-level courses. Both courses provide information on all CREW systems fielded in theater and at the NTC, with the preponderance of training focused on the DUKE system. The Leader-level course is a classified secret course and is the second course that requires clearance verification of all students that attend (JPASS Security roster). This class covers information regarding interoperability issues, specific CREW ranges and TTPs used in theater, troop leading procedures with a checklist geared specifically to a patrol leader or convoy commander, and the ISR capability provided by the DUKE. Recommend that Leader course attendees focus on NCOs and above, and include members of the battle staff. Please check the NTC CI2C trng schedule for times and availability of the course.
- CREW Terminal Learning Objective: Given CREW devices employed at the NTC, Soldiers will be able to place each CREW device into operation within 3 minutes.
 - Electronic Warfare Officer (EWO) Training: The EWO course is another class that requires Secret Clearance level or above to attend (submit BCT security roster for verification). This training is designed to help 29 Series EWO professionals (Officers, Warrant Officers, and NCOs) that have attended the resident course at Fort Sill, Oklahoma, as well as those Soldiers that are not 29 series but have attended the 6 week BDE EWO course at Fort Sill or the 3 week BN EWO course at Fort Huachuca. The training covers the duties and responsibilities of a EWO; to include the use of issued EWO related equipment, CREW devices overview, and practical exercises that involve troubleshooting faults regarding the CREW systems on vehicles. Instructors will provide mentoring during the rotation to assist in the EWO's progression of understanding, and are available for re-training as necessary. The class first meets on RSOI-1 at 1300 hrs for introductory comments and class overview. The primary BDE and BN EWOs are encouraged to receive the NTC issued EWO kits on RSOI-1 between the hrs of 0800-1200 to ensure they have equipment on hand prior to the beginning of class.
- D. **Raven SUAS / Puma** the NTC CI2C Raven SUAS / PUMA training is refresher training for certified Raven DDL Operators ONLY. **NTC DOES NOT have the ability to license operators**, so unlicensed operators will not be able to operate Raven Systems without prior licensing, per Army Regulations. The BCT **MUST** bring their Raven DDL Systems (up to 17) to the CI2C on RSOI 1 where they will conduct refresher, simulator training, and receive currency flights. Keep in mind that for Raven DDL systems, **ONLY Raven DDL channels 78, 81, 84, 94 and 97 are authorized for use at NTC.**

These channels Operate on the M2 Frequency range and are used stateside. The M2 Modules are issued to each BDE Raven system. The Modules are returned after the rotation. Should the BDE require additional Raven systems, the CI2C has five M2 Raven Systems for issue. The CI2C also has 5X Puma Small UAS systems for issue to The BDE for use during the rotation, if the BDE has Puma certified Operators.



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The NTC CI2C Raven Currency Training holds 30 seats, and lasts for 4 days and nights (RSOI 1-4). These operators are trained to maintain current flight status (currency) per the SUAS Aircrew Training Manual (TC 1-611) and are also trained on current Raven SUAS TTPs relevant to the Theater to be deployed. The BCT Raven Operators **MUST** bring the Raven systems to the training on RSOI 1 to load the RSTA Kit Laptop with applicable NTC maps, NTC elevation data (DTED) and NTC airspace information. The following Raven Training schedule is subject to weather delays and cancellations:

- **RSOI 1- (0800hrs – 1700hrs)** NTC Required AC2 Airspace Briefing, M2 Module exchange, Familiarization and classroom training, Simulator flights for **ALL BCT Raven DDL Operators**
- **RSOI 2- (1000hrs – 2200hrs)** Currency Flights and TTP training (up to 10 Operators)
- **RSOI 3- (1000hrs – 2200hrs)** Currency Flights and TTP training (up to 10 Operators)
- **RSOI 4- (1000hrs – 2200hrs)** Currency Flights and TTP training (up to 10 Operators)

Schedule Note: RSOI flight days for each BN's operators will be selected on RSOI 1 based on the BCT Training Schedule.

An Air Vehicle Locator Beacon (AVLB), formerly known as the Falcon Tracker, is required to be turned on by the Operators for each and every flight at NTC. The Channel for the AVLB is associated with each Raven DDL Channel. These AVLB Channels are provided by the AC2 Team when Raven Missions are approved. This AVLB (when turned on) is used to find a lost Raven Aircraft during training when all traditional methods to find the aircraft downrange have been exhausted.

NOTE: The NTC CI2C can train Raven B (8 Channel) Operators to the new Raven DDL system on a Case-By-Case basis, time permitting.

- Raven Terminal Learning Objective: Given a complete RQ-11B DDL Raven System, Raven DDL technical manual and checklist, Aircrew Training Manual (TC 1-611), and all applicable documentation, the Raven DDL Operators will successfully operate the Raven SUAS at NTC IAW RQ-11B TM and the NTC SUAS Letter of Agreement.

E. **Tactical Site Exploitation (search) Training-** Offensive Search is a 4 day course that focuses on the following topics: 1) Search planning 2) Threat assessment 3) IED Component parts and awareness 4) Search kits and specialized search equipment 5) Occupied building and search area techniques 6) Document and media exploitation 7) Biometrics 8) Evidence handling 9) Intelligence gathering 10) Site exploitation 11) Search Report Forms 12) Tactical Questioning. 13) ATTAC Software. Utilizing the four Iraqi style Search buildings on site at bldg 851c, Soldiers learn how to plan, organize and conduct a search utilizing search kit and other equipment to aid in the operation. Recommended that leaders, NCOs, platoon leaders and platoon sergeants attend the training so once complete, they can provide instruction to their Soldiers. Participation in Offensive search course should be organized into four 9-man squads, 36 Soldiers total.



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- F. **Entry Control Point Training-** Entry control point operations are an integral part of stability operations. We have this 4 hr course broken into two phases. The first phase involves Rapid Equipping Force (REF). REF is an Army organization which specializes in responding to CDR's urgent operational requirements in a theater of operation and has the capability to rapidly acquire equipment in support of those requirements. During this phase the Soldiers learn how to use and integrate REF equipment in relation to Hasty and Deliberate ECP/TCP operations. During phase two, the Soldiers are taken to the mock ECP lane we have built on the training site, given a block on instruction on the NTC EOF kit, and given the opportunity to practice and further develop their SOPs for operating an ECP as they work through different scenarios a unit can possibly encounter.
- Escalation of Force Terminal Learning Objective: Provided an ECP kit and other Escalation of Force and Non-Lethal Equipment, Soldiers will successfully integrate equipment into a deliberate entry control point and hasty traffic control point.
- G. **Biometric Automated Toolset (BAT):** Because these systems work on real world SIPRnet, this is the fourth class that requires all attendees to have a secret or higher clearance (verification provided through BCT security roster). Biometric systems (BAT and HIIDE) are used extensively in OIF and OEF. In order to replicate the RIP between the incoming BCT, the Biometric systems provided to the BCT will already have forensic-type information enrolled in BAT that includes information on roleplayers that work on the FOBs, ISF and LN leadership, as well as existing data on suspected AIF individuals and people of interest operating in the BCTs battle space. Through forensic data collected during patrols, through evidence collection provided by WIT and EOD units, and provided by the National Security Agency (notional at the NTC), units will be able to positively identify known and suspected high value targets (HVTs), person(s) of interest, and individuals whose access to military facilities has been suspended. Please refer to file ACOE-02 (CI2C Distro).xls for amount of BAT and HIIDE systems available for your training. BAT systems are commonly located at S2 cells, CoISTs, FOB ECPs, detainment facilities, and ISF recruiting locations. The BAT class is typically an 8 hr course.
- H. **Handheld Interagency Identity Detection Equipment (HIIDE)** are portable biometric recording devices, capable of conducting Iris scans, fingerprint scans, and digital photos all in one package. By downloading database feeds from the BAT system, a Soldier can scan the HIIDEs database to confirm/deny a person's identity, and whether or not they are a person of interest. These systems are commonly issued to Soldiers that conduct combat patrols and can gather biometric information. The HIIDE class is typically a 1 hr course.

Check the CI2C trng schedule for dates and times of availability.

- Biometrics Terminal Learning Objective: Soldier will demonstrate basic knowledge of both systems and demonstrate skill required to enroll a person of interest, to import and export data between the BAT and HIIDE, and to create a tracking report
- I. **Battlefield Forensics Training-** Instructors from the United States Army Intelligence Center (USAIC) provides battlefield forensics training in teams of 4 up to 32 Soldiers (eight 4 man teams) within the BCT, and train your Soldiers on the aspects of gathering forensic data in a battlefield environment similar to the capabilities of Weapons Intelligence Teams (WIT). The training these Soldiers receive will provide your



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units with the capability to identify, track, and further exploit persons of intelligence and National Security Interests. Subject areas taught include: Tactical site exploitation, scene evaluation, basic latent print collecting, and proper handling of materials to preserve biometric data.

- J. **One System Remote Video Terminal (OSRVT) Training-** The OSRVT is a tool for viewing full motion video (FMV) from manned and unmanned systems, primarily at brigade and below levels, greatly enhancing situational awareness and ultimately supports quicker decision making. OSRVT training is already provided as part of the CoIST training schedule. Therefore, the target audience for this class is primarily operators of the system working at the BCT and BN staff level. This class will teach operators the capabilities of the OSRVT, how to install and put the system into operation, as well as tactical application. This class is scheduled to last 4 hours.

2. Coordinating Instructions:

(1) NTC CI2C Equipment:

- CI2C equipment is provided to enhance the rotational units training; the equipment will be returned at the conclusion of training once the units receive their end of mission instructions on TD-14 and are prepared to execute, and continue on Saturday (Brigade Return to Duty, or BRD-1) thru Wednesday, BRD-5. The equipment is not intended to re-deploy to home station with the rotational unit. The BCT will not be cleared from the NTC until all CI2C equipment provided to the BCT has been accounted and returned back to NTC CI2C.
- All NTC CI2C equipment will be hand receipted prior to departing the CI2C facility.
- Damaged or missing equipment must be accounted for with a damage statement, property adjustment document signed by the unit's Commanding Officer; statement of charges or a FLIPPLE that has been submitted and accepted by the NTC G3 TSD PBO MS. Donna Waggoner bldg 492.

(2) Training: NTC CI2C training occurs RSOI week. The Training Matrix along with various enclosures of the equipment will assist the BCT with maximizing Soldier participation and inform the NTC CI2C where additional training recourse are to be committed to meet the BCTs C-IED, IED-D training objectives

(3) CREW distribution: Recommended that each maneuver element of 3 vehicles conducting COIN operation have two CREW devices position on vehicles within the patrol. Training CREW devices provide EW coverage for a 25 meter radius. Therefore, based on separation distance between vehicles, more than one CREW device is required to provide minimum coverage. The CREW install team will install CREW based on the BCT CREW allocation, up to 450 devices installed.



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(4) BCT LNO:

- BCT will establish an LNO to conduct initial link-up with the NTC CI2C at Bldg. 851C NLT the Wed prior to your RSOI day 1. (D-5); The purpose of the coordination meeting with NTC CI2C Supervisor Mike Collabolletta & Crew Supervisor Jeremy Wilder is to finalize trng schedule, equipment distribution and schedule, and CREW device installation.
- LNO should arrive with latest trng schedule, equipment distro list, and CREW allocation
- LNO must have means to communicate with the BCT IOT inform the BCT battle captain as to progress of equipment installation, class attendance and S4's to ensure the BCT and BN-level commanders intents are met and all equipment is properly signed for.
- At the conclusion of the rotation, it is recommended that the BCT re-establish the BCT CI2C LNO once the unit receives end of mission instructions and begins the turn-in process in order to coordinate any follow on instructions.
- If units are unable to meet the turn-in timeline, notify the NTC CI2C Manager Mr. Randall Menough at 760-380-3785 at Bldg 492.

3. SERVICE SUPPORT

1) Standard Equipment Issue (RSOI) Schedule

<u>EQUIPMENT</u>	<u>DATES</u>	<u>HOURS</u>	<u>LOCATION</u>
CoIST Kits	RSOI 2	1600-1700	Bldg 851a T-11
OSRVT	RSOI 2	1600-1700	Bldg 851a T-11
CREW devices	RSOI 1-4	0730-1700	Bldg 851c (bays)
EWO Equipment	RSOI 1	0800-1200	Bldg 851c (bays)
TAS-C EOF signs	RSOI 1-4	0800-1700	Bldg 851c (bays)
BAT	RSOI 4	1500-1600	Bldg 851 Trailer 10
HIIDE	RSOI 4	1230-1600	Bldg 851 Trailer 10
REF non-lethal	RSOI 1-4	0730-1530	Bldg 851a (warehouse)
Route Clearance	RSOI 4	1300-1530	Bldg 851a



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2) Standard Equipment Turn-in (REGEN) Schedule

<u>EQUIPMENT</u>	<u>DATES</u>	<u>HOURS</u>	<u>LOCATION</u>
CoIST Kits	BRD 1-5	0730-1600	Bldg 851 Trailer 11
OSRVT	BRD 1-5	0730-1600	Bldg 851 Trailer 11
CREW devices	BRD 1-5	0730-1700	Bldg 851c (bays)
EWO Equipment	BRD 3	0730-1700	Bldg 851c (bays)
BAT	BRD 1-5	0730-1600	Bldg 851 Trailer 10
HIIDE	BRD 1-5	0730-1600	Bldg 851 Trailer 10
REF non-lethal	BRD 3-5	0730-1530	Bldg 851a (warehouse)
Route Clearance	BRD 1-2	0730-1600	Bldg 851a

- 3) CREW device maintenance support: During operations in support of the rotation, G-3 Training Support Division will dispatch a CREW contact team to provide maintenance support. The CREW (Counter-RCIED Electronic Warfare) contact team will provide maintenance support throughout the rotation. The CREW contact team will be in the Brigade sector during TD's 4 - 13. Units requiring additional CREW contact team support must contact Mr. Randall Menough at Commercial (760) 380-3785, DSN: 470-3785 for further coordination. Please check your FRAGOs for updates on CREW contact team locations and times.
- 4) Route Clearance equipment maintenance issues: notify the corresponding Company/Team Observer/Controller and submit a request for support through the BCT to DIV. Route Clearance advisor is Mr Tom Turrentine, 760-380-2527.
- 5) OSRVT equipment maintenance issues: notify the corresponding Company/Team Observer/Controller and submit a request for support through the BCT to DIV. OSRVT training/repair POC is Mr Cory Butler at 760-380-7737
- 6) Raven SUAS maintenance issues: notify the corresponding Company/Team Observer/Controller and submit a request for support through the BCT to DIV. The Raven SUAS instructor is Mr Joe O'Dell at 760-4756.
- 7) Biometrics (BAT & HIIDE): notify the corresponding Company/Team Observer/Controller and submit a request for support through the BCT to DIV. The Biometrics POCs are Mr. Randy Payne at 760-380-7864, Mr. Joe Melucci at 760-380-6876.



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4. **NOTE:** Additional training support required by BCT can be arranged on a case-by-case basis at the BCT's request. Units requiring/desiring additional CI2C provided training should contact the corresponding Observer/Controller team, and submit a request for support through the BCT to your supporting DIV and provide that request to the NTC G3, Chief of Plans, @ 760-380-6776. For all other requirements contact NTC, G3 CI2C Manager, Mr. Randall Menough at 760-380-3785 or the CI2C Supervisor Mr. Mike Collabolletta at 760-380-5585.

5. Acronyms

AR	Army Regulation
ATO	Authorization to Operate
BAT	Biometric Automated Toolset
BCT	Brigade Combat Team
BDE	Brigade
BER	Beyond Economical Repair
BRD	Brigade Return to Duty
CoIST	Company Intelligence Support Team
C-IED	Counter Improvised Explosive Devices
CI2C	Counter Improvised Explosive Device Integration Cell
CREW	Counter Radio Electronic Warfare
CTR	Continuous Technology Refreshment
DTED	NTC elevation data
ECM	Electronic Counter Measure
ECP	Entry Control Point
EOF	Escalation of Force
FSO	Full Spectrum Operations
FSR	Field Service Representative



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FLIOPL	Financial Liability Investigation of Property Lost
FMV	Full Motion Video
FOB	Forward Operating Base
HIIDE	Handheld Interagency Identity Detection Equipment
HVT	High Value Targets
IED	Improvised Explosive Devices
IED-D	Improvised Explosive Devices-Defeat
METT-TS	Mission, Enemy, Terrain, & Troops –Tactical Scenarios
OSRVT	One System Remote Video Terminal
OPSEC	Operational Security
PDSS	Pre-Deployment Site Survey
POI	Persons of Interest
RCF	Radio Control Frequency
RCIED	Route Clearance Improvised Explosive Devise
RCOS	Route Clearance Optical Suite
RCT	Route Clearance Teams
REF	Rapid Equipping Force
REGEN	Regeneration Operations
RF	Radio Frequency
RSOI	Reception, Staging, Onward Movement, and Integration
RTU	Rotational Training Unit
SUAS	Small Unmanned Aerial System
TD	Training Day
TSD	Training Support Division
TTP	Tactics, Techniques and Procedures



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TU	Training Unit
UAS	Unmanned Surface or Air Vehicle System
UAV	Unmanned Aerial Vehicle
VMC- 1	VALLON Mine Clearance -1
VMR-2 Mine hound	VALLON Mine Penetrating Radar-2 (Minehound)
WIT	Weapons Intelligence Team
5W's	Who, What, When, Where, Why & How