



ASAT

Advanced Situational Awareness Training

In an environment where the enemy does not wear a uniform, how do our Soldiers detect the presence of a threat?

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Outline



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- Background Context
- The 6 Domains
- ASAT Pilot Courses
- Proposed MCoE Training Strategy COAs
- Testimonials



Background Context



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Terrorists and insurgents use guerilla warfare, civilians for cover, and unconventional tactics to create havoc. IEDs and other asymmetric threats continue to catch troops unaware. ASAT improves the observation and human behavior profiling skills of Soldiers, which enhances their ability to identify dangerous persons and situations before a destructive event occurs. **It increases Soldiers' situational awareness "left of boom"**. As much of the military has concentrated on the development of technology and armor, this program represents a different approach to giving Soldiers an edge in combat. **It is aimed at developing a new mind-set for situational awareness.**

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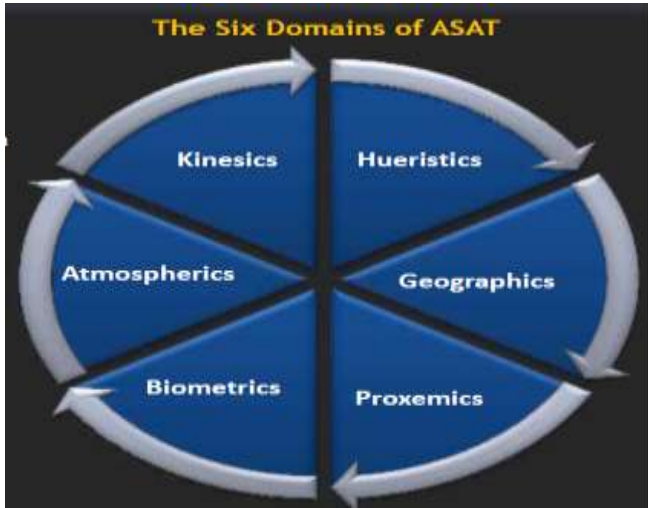
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Advanced Situational Awareness



Advanced Situational Awareness Training (ASAT)



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Human Behavior Pattern Analysis Assists in Determining Optimum Method of Approach:

Do I?

Ignore it

Talk to develop immediate information

Detain for further exploitation

Kill it

- Enhanced Optics & Observation
- Human Behavior Pattern Recognition
- Human Behavior Pattern Analysis to determine intentions
- Observation of Human Terrain through Enhanced observation techniques and the integration of optics to Enhance Observation
- Understanding & overcoming the eye/brain bias
- Constant Baseline Sampling using the Six Domains
- Recognizing and Establishing anomalies as pre-event indicators

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The Six Domains of ASAT



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1. **Heuristics** makes use of things already known to develop a tactical shortcut that elicits just enough information to draw a reasonable conclusion. Heuristics helps point out the safe and focus on the dangerous so that military personnel can be proactive in their pursuits.
2. **Geographics** focus on how terrain (specifically Anchor Points, Habitual Areas, and Natural Lines of Drift) create measurable and detectable patterns within any environment.
3. **Proxemics** include awareness of how Proximity Negates Skill, and how people interact with each other when they are in groups.



The Six Domains of ASAT



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4. **Biometrics** involve more than computer or machine generated images. Biometrics includes observable and measurable physiological signals given off by an insurgent attempting to hide within and among the civilian population stateside or theater-wide.
5. **Atmospherics** consist of the sights, smells, tastes, and feel of an area. Atmospherics can include bullet holes, rubbing, tattoos, colors, flags, bumper stickers, and graffiti.
6. **Kinesics** refer to *body language or paralanguage*, by which one can determine whether a person is angry, sad, violent, deceitful, or in other emotional states that can be assessed at ANY observable distance, all of which help determine whether a situation is or may turn violent or dangerous.

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MCoE ASAT Pilot (Jan 12-Feb 13)



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MCoE is currently conducting a pilot program on site to determine how ASAT can best be institutionalized. The pilot is intended to establish the enduring POI requirements as well as the resources required to sustain ASAT as a resident course. During the pilot MCoE will complete:

Two (2) 22-day advanced courses (ASA-Advanced) (1 complete)

Twenty-Two (22) 5-day courses (ASA-Basic) (8 complete: 197th Cadre (1), IN ALC (4), A-BOLC (2), 4/82 (1))

Up to Forty-Eight (48) 4-hour classes for selected PME and functional courses. (15 complete: IBOLC, OCS, MCCC, MPCC, M-SLC; 34 total scheduled)

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Pilot Course Variations



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4 Hour Overview (200 Students)-This overview provides leadership an introduction to the common language associated with ASAT skills training and sustainment.

5 Day Course (60 Students)- Advanced Situational Awareness-Basic (ASA-Basic) course trains students to cognitively evaluate complex environments and to effectively communicate findings to a Higher Headquarters while operating as a member of a Squad. The knowledge gained from this training will enhance the Squad's ability to achieve overmatch in an operational environment.

22 Day Course (30 Students)- Advanced Situational Awareness-Advanced (ASA-Advanced) course prepares students to assist commanders with planning, resourcing, and conducting initial and sustainment Advanced Situational Awareness Training at their unit. For FY15 and beyond this will include providing the 4 hour overview/ refresher.

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5 Day Pilot Program Of Instruction (POI)



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Day 1	Day 2	Day 3	Day 4	Day 5
Classroom	Classroom	Classroom	Range	Range
Eye	The Six Domains	5 Combat Multipliers	Practical Application Day 1	Practical Application Day 2
Enhanced Optics & Observation		Combat Rule of Three	Scenarios 1-4 & 2 Night Scenarios	Scenarios 5-8 & FINEX
Cognitive Brain		Photo & Video Practical Application		
Sense Making		Enhanced Optics & Observation II		
Problem Solving				
Left-of-Bang Thinking				
7-Step Terrorist Planning				

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Overview of 5 Day Course



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Key skills gained from ASAT training include:

- Fostering a proactive mindset replete with advanced situation awareness and a keen grasp of reading and interpreting human terrain through societal or environmental baselines.
- Focusing on how to distinguish what is here that should not be here; and what should be here that is not.
- Allowing the ASAT user the ability to conduct predictive analysis on the most likely and most dangerous courses of action of their adversaries.
- Assessing situations based on sound ASAT principles and learning to be proactive, rather than reactive to a potential threat.
- Efficiently using optics such as binoculars, night vision devices and thermal sights to improve situational awareness and threat assessment.



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**3 Proposed
MCoE
Institutional
ASAT
Training Strategy COAs
being considered
(In staffing only)**



Proposed ASAT Training Strategy

COA 1 (Institutional PME focus)



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1. Integrate 5-Day Basic and 22-Day Advanced ASAT training into the MCoE Staff, Faculty and Cadre certification programs. (7 and 7 resident courses)
2. Integrate 5-Day ASAT training into Infantry and Armor ALC courses; IN and AR officer BOLC courses. (o/a 43 resident classes)
3. Phase in the 11B/11C/19D/19K ALC into the 24 Regional Training Institutes (RTIs) and resident MTTs to AC posts (This is biggest challenge due to role player requirement for RTIs)
4. Integrate 4-hour ASAT overviews/refresher training into OCS and senior course POIs (MPCC, MCCC, MSLC).
5. Integrate ASAT tenets into MCoE POIs for OSUT, OCS, WLC, and select Functional courses.

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Proposed ASAT Training Strategy

COA 2 (IMT focus and MTTs)



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1. Integrate 5-Day and 22-Day ASAT training into the MCoE Staff, Faculty and Cadre certification programs.
2. Integrate 5-Day ASAT training Initial Military Training (IMT):
IN and AR OSUT (Branch specific AIT portion)
IN and AR officer BOLC courses.
3. Provide MTTs to support Operational Force ARFORGEN cycles and CTC pre-deployment training.
4. Integrate 4-hour ASAT overviews/refresher training into OCS, IN/AR-ALCs and senior course POIs (MPCC, MCCC, MSLC).
5. Integrate ASAT tenets into MCoE POIs for OSUT, OCS, WLC, and select Functional courses.

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Proposed ASAT Training Strategy

COA 3 (CADRE and Operational Force)



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1. Integrate 5-Day and 22-Day ASAT training into the MCoE Staff, Faculty and Cadre certification programs.
2. Open up 5 day MCoE stand-alone course to Operational force, Also consider operational force attendance 22 day course at MCoE
3. Provide MCoE based ASAT MTTs to Operational Force ISO ARFORGEN
4. Integrate 4-hour ASAT overviews/refresher training into OCS, NCO and officer PME to include senior course POIs (MPCC, MCCC, MSLC).
5. Integrate ASAT tenets into MCoE POIs for OSUT, Officer and NCOES PME courses, and select Functional courses.

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ASAT Training Benefits



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Integration of ASAT and its tenets into the Maneuver Center's Institutional courses over the next 2-7 years will provide the Army sustainable ASAT Soldier skill sets introduced early in the training & education process and continued through advanced leader courses.

This initiative will not only provide more structure for making 'Every Soldier a Sensor,' it also supports the intent establishing the Squad as a Foundation of the Decisive Force (S:FoDF).

ASAT supports all three LOEs for TRADOC's CIED strategy: Attack the Network, Defeat the Device, and Train the Force

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Strategy & Resourcing Challenges and Concerns



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- Bridging and Strategy Resourcing (Mar 13-Sep 14)
 - ORBIS
 - Role Players
 - Contract vehicles
 - Instructor balance mix (AC/CIV/CONT)
 - Instructor Certification
- MTTs
 - Instructor balance mix (AC/CIV/CONT)
 - #s needed to support ARFORGEN
- Challenge: Focus of ASAT integration into Maneuver Force (and Army) to ensure we targeting the right mix to get ASAT throughout the force and make it sustainable over the next 2-7 years)

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Feedback

Student Testimonials



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"ASAT enables operators to short-circuit threats before they harm friendly forces or public perception. The training enables individual shooters to reduce civilian casualties and collateral damage from preventable firefights. ASAT-trained operators are also able to be proactive instead of reactive, giving them relative superiority in any situation." CDR TWO Troop, SEAL Team 2, NSW

"I know in my future deployments I will never look at the battlefield the same way." SFC 316th CAV Bde

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Feedback

Student Testimonials



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"Before I deploy next in Jan 13, if I have to, I will take my own leave time and pay my own way in order to get the 22 day trainer the trainer course. I owe it to my family, my Soldiers and myself to do that before I deploy." SSG 1AD

"If given the choice I would prefer new Soldiers coming to my unit from OSUT be trained in ASAT rather than BRM. I can train them in rifle marksmanship, but I cannot train them in ASAT."
SSG 1AD

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5-day ASAT AAR/Survey Comments

Dated 25 FEB 12



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"The best course I have ever been to. It was a course I wish I would have had prior to deploying."

- SFC with four deployments

"I have been training snipers for 10 years, I believe that if I had this training when I started I could have better equipped my snipers and saved more lives."

- Sniper instructor with one deployment

"This course blows all the other pre-deployment courses out of the water."

- SSG with three deployments

"EXTREMELY IMPORTANT. A working knowledge of this would save more lives."

- SPC with one deployment



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Questions and Discussion



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Backup

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MCoE, DOTD



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SFC Charles McMahan, 706.626.2341, charles.w.mcmahan.mil@mail.mil

Mr. Chuck Taylor, 706.545.7563, richard.c.taylor46.civ@mail.mil

Mr. Johnny Brooks, 706.626.2369, johnny.w.brooks3.ctr@mail.mil

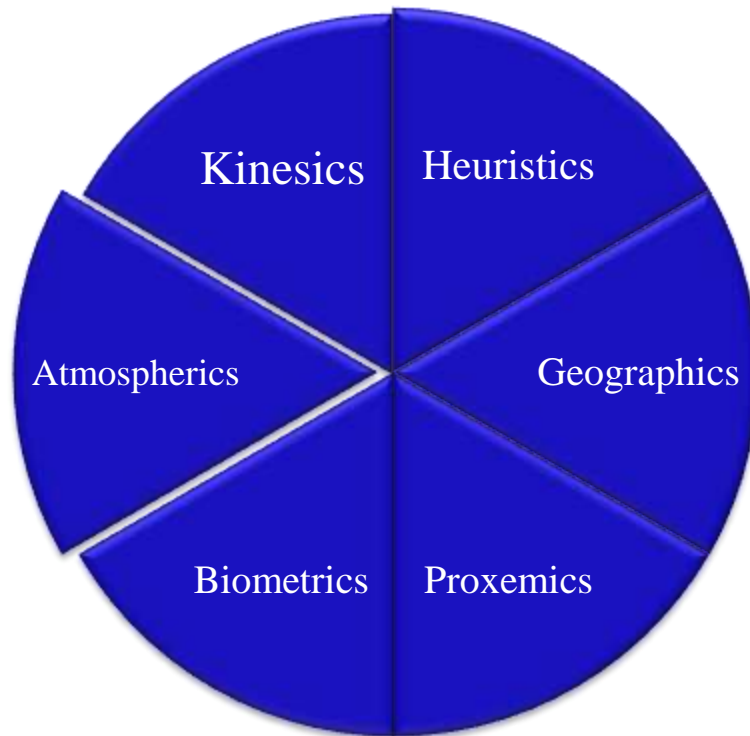


The Science of ASAT



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The Six Domains of ASAT



“Empowering everyone with Behavior Profiling skills (HBPR&A), from the highest ranking officers to the lowest ranking cooks, would constitute a major shift in doctrine. However, such a shift seems both essential and, we hope, inevitable given the increasing role that it will play in our overall military strategy.”

- **Dr. V. Alan Spiker (Ph.D.)**



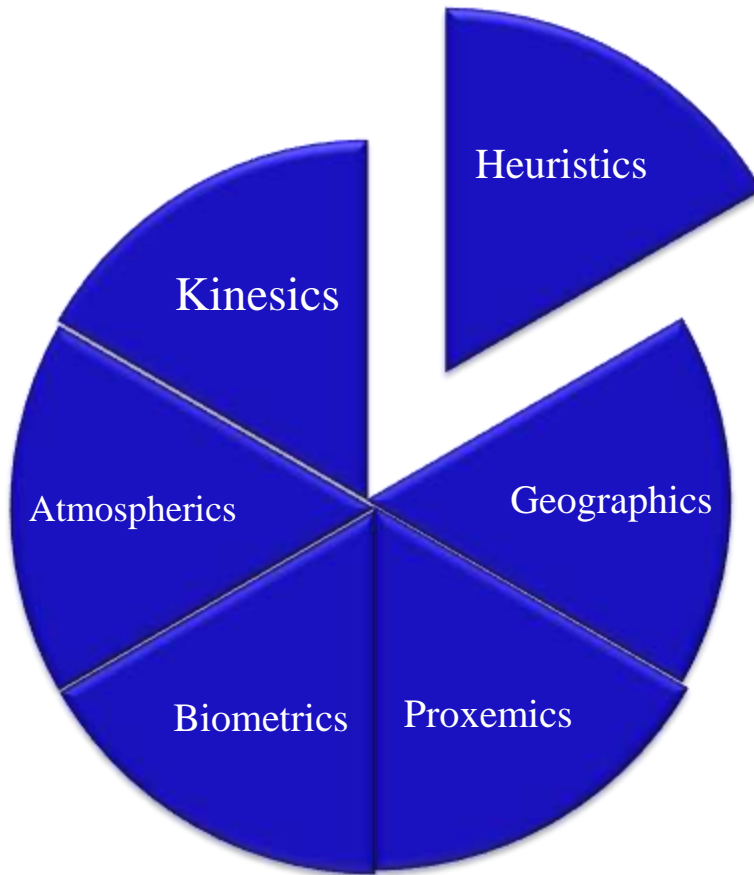
The Six Domains of ASAT-Heuristics



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Heuristics makes use of things already known to develop a tactical shortcut that elicits just enough information to draw a reasonable conclusion. Heuristics helps point out the safe and focus on the dangerous so that military personnel can be proactive in their pursuits.

Heuristics act as the 'lens' through which operators will see and assess their environments creating the bias for anomaly detection, threat comparison & fast, decisive action.



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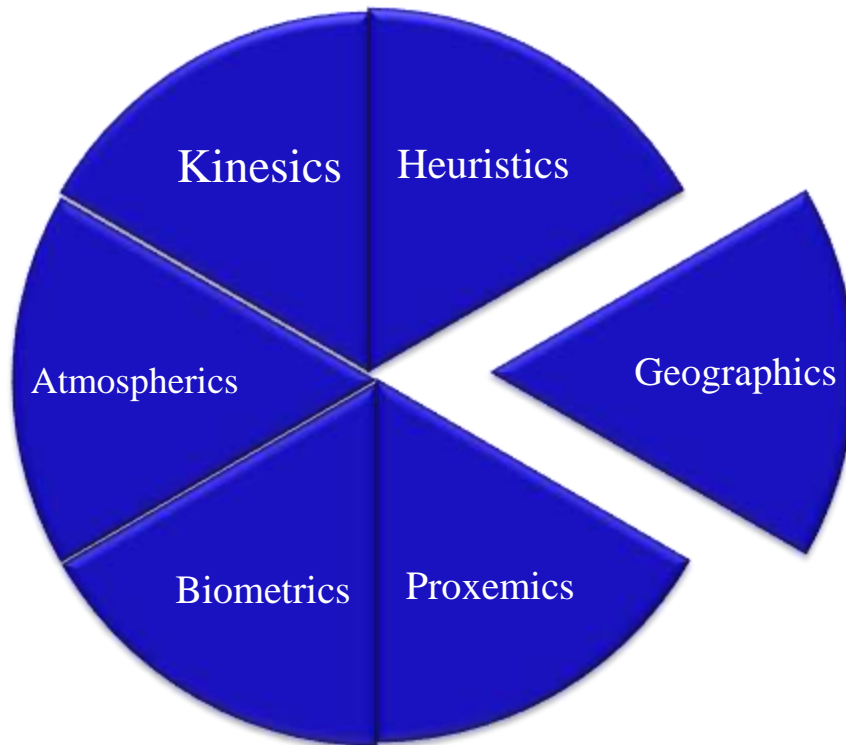
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The Six Domains of ASAT-Geographics



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Geographics focus on how terrain (specifically Anchor Points, Habitual Areas, and Natural Lines of Drift) create measurable and detectable patterns within any environment.

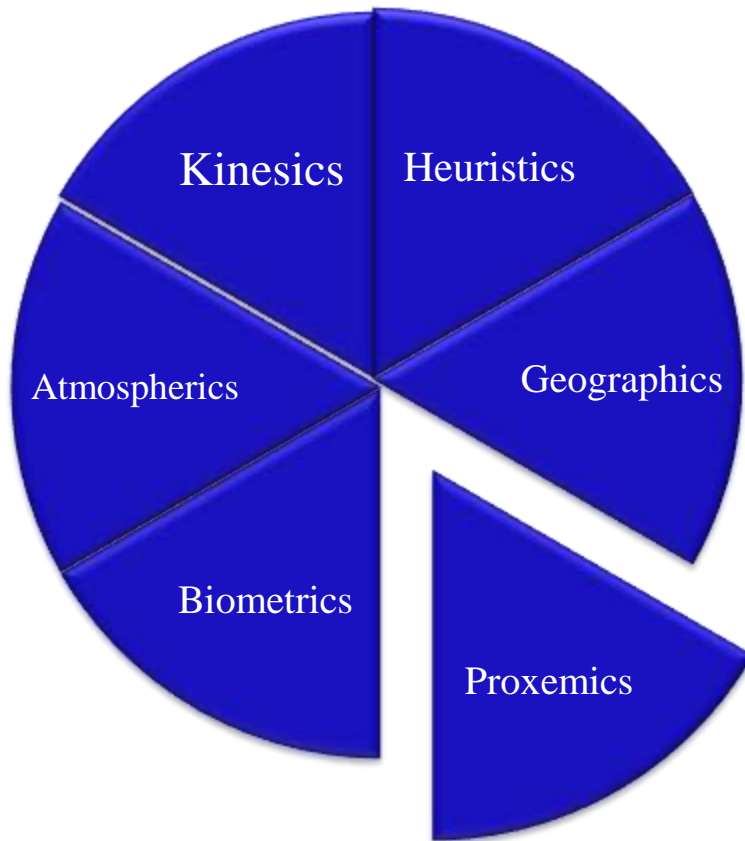
Understanding how an opponent uses (or is familiar with) the **Geographics** of a battlespace can help promote predictive analysis on how, where and when he will strike.



The Six Domains of ASAT - Proxemics



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Proxemics include awareness of how Proximity Negates Skill, and how people interact with each other when they are in groups.

Proxemics includes how to spot HVI and HVTs in the battlespace.

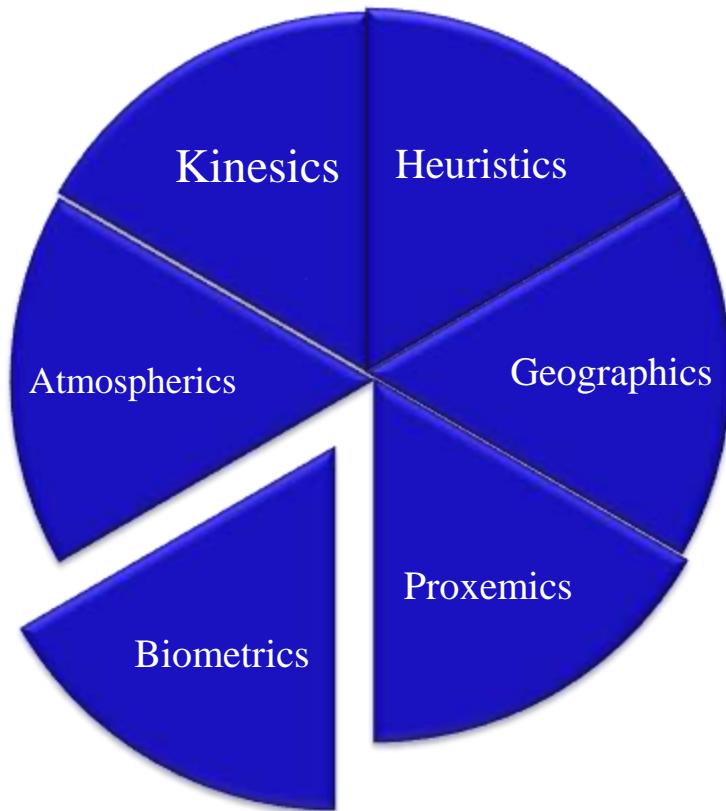
This creates the ability to proactively sense danger and determine whether people are mission focused and what their most likely and most dangerous course of action may be.



The Six Domains of ASAT-Biometrics



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Biometrics involve more than computer or machine generated images. Biometrics includes observable and measurable physiological signals given off by an insurgent attempting to hide within and among the civilian population stateside or theater-wide.

For operators, **Biometrics** can help discern deception or aggression, and discern one specific person or a small group of actors from a large crowd by offering evidence and artifacts in support of a reasonable conclusion.

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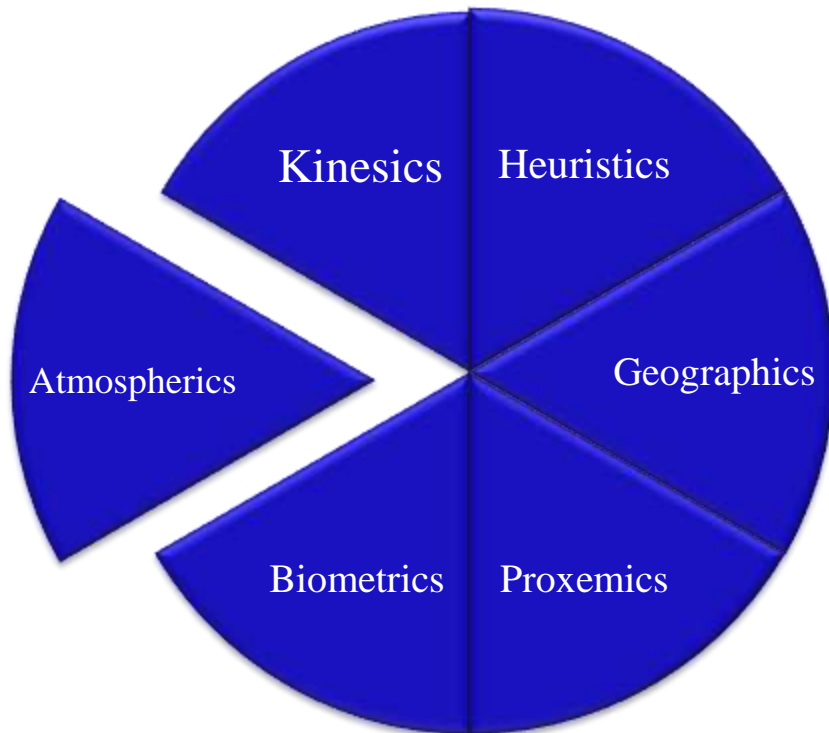
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The Six Domains of ASAT- Atmospherics



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Atmospherics consist of the sights, smells, tastes, and feel of an area. Atmospherics can include bullet holes, rubbing, tattoos, colors, flags, bumper stickers, and graffiti.

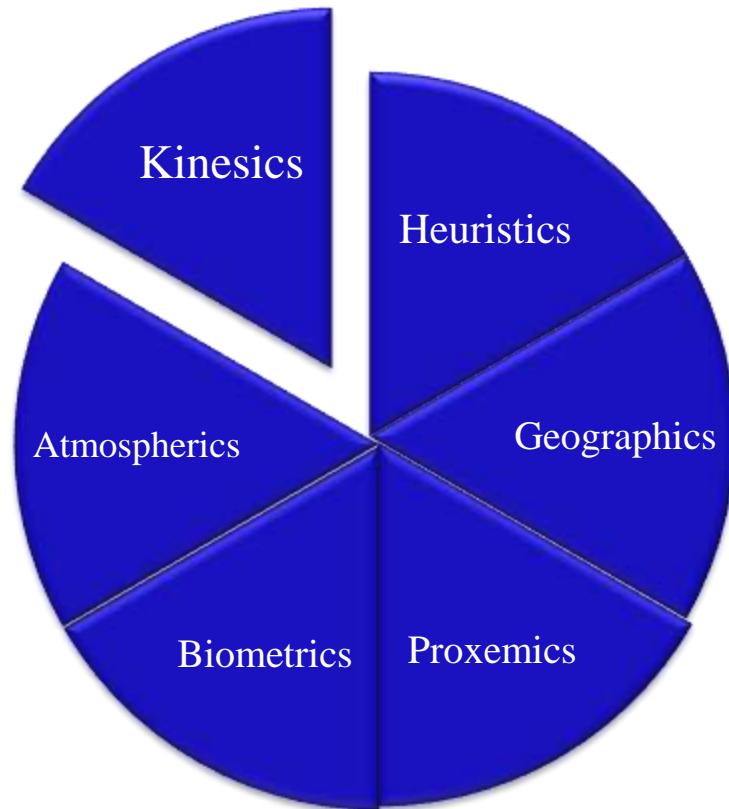
Atmospheric changes alone can indicate an impending attack. Operators can read subtle atmospheric shifts and assist in making predictive determinations that danger is pending.



The Six Domains of ASAT-Kinesics



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Kinesics refer to *body language or paralinguage*, by which one can determine whether a person is angry, sad, violent, deceitful, or in other emotional states that can be assessed at ANY observable distance, all of which help determine whether a situation is or may turn violent or dangerous.

The understanding of *acultural* human dynamics and body language or paralinguage will provide context and relevance for such observations and assist in threat determination by offering artifacts & evidence in support of high speed reasonable conclusions.

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Proposed ASAT Training Strategy COA 1



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COHORT	Training Audience	Population	Current	Bridging	Longterm	
			FY12-Feb 13	FY13-FY14	FY15-18	FY19->
MCoE CADRE	Staff, Faculty, Cadre Certification	CADRE	5 day course (197th)	5 day course (197th)	5 day course (197th)	5 day course (197th)
		CADRE	22 day T-T-T (197th)	22 day T-T-T (197th)	22 day T-T-T (197th)	22 day T-T-T (197th)
IET	OSUT	STUDENTS	Tenets integrated In POI	Tenets integrated In POI	Tenets integrated In POI	Tenets integrated In POI
NCOES	IN-ALC	CADRE	5 day course	5 day course		
		STUDENTS	5 day course	5 day course	5 day course	5 day course
	AR-ALC	CADRE	4 hour overview	4 hour overview	5 day course	5 day course
		STUDENTS	4 hour overview	4 hour overview	5 day course	5 day course
	M-SLC	STUDENTS	4 hour overview	4 hour overview	4 hour overview	refresher
OES	OCS	STUDENTS		4 hour overview	4 hour overview	refresher
		STUDENTS		Tenets integrated In POI	Tenets integrated In POI	Tenets integrated In POI
	IN-BOLC	STUDENTS	4 hour overview	5 day course	5 day course	5 day course
	AR-BOLC	CADRE	5 day course	5 day course		
		STUDENTS	5 day course	5 day course	5 day course	5 day course
MCCC	CADRE	4 hour overview	4 hour overview			
	STUDENTS	4 hour overview	4 hour overview	4 hour overview	refresher	
MPCC	CADRE	4 hour overview	4 hour overview			
	STUDENTS	4 hour overview	4 hour overview	4 hour overview	refresher	



Overview of 5 Day Course



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Day 1 serves as a primer to all six of the major training objectives. At the conclusion of this unit, Soldiers will be able to describe the purpose of ASAT and explain how ASAT skills can enhance their individual role in an operational area.

Day 1 includes principles related to two of the key training objectives: proactive analysis of dynamic situations and employment of cognitive discipline. At the conclusion of this unit, Soldiers will be able to explain the cognitive processes associated with the cognitive sense-making, problem solving and advanced critical thinking (e.g. OODA-Loop) in more detail, including how these processes are impaired by stress and how decision-making limitations can be mitigated, such as by employing the five combat multipliers.

Day 1 further introduces principles related to the major training objective of using enhanced observation techniques. At the conclusion of this unit, Soldiers will be able to briefly describe the physiological and cognitive processes involved with observation and perception. They will be able to succinctly list the limitations of the eye and the brain, how these limitations contribute to perceptual errors, and how to overcome these limitations with enhanced observation techniques.

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Overview of 5 Day Course (continued)



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Day 2 - Provides detail on enemy decision-making in order for Soldiers to change their perspective and assume that of their adversary. This knowledge supports four of the key training objectives: identification of critical event indicators, interpretation of human behavior cues, synthesis of ambiguous information, and proactive analysis and dynamic decision-making. More succinctly, this module will help Soldiers develop their tactical cunning, both in general as well as specifically for their own operational environment.

Day 3- Introduces techniques for interpreting human behavior cues. At the conclusion of this unit, Soldiers will be able to describe the six domains of Advanced Situational Awareness in detail, and they will be able to demonstrate the domains' use on a limited scale, such as interpreting photographs and video vignettes.

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Overview of 5 Day Course (continued) with Role Players



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Day 4 and 5 – Field Training Exercise

From a distant OP, Soldiers observe a scripted village scenario with role players and apply their ASAT skills. As skilled observers of their surroundings, Soldiers learn to interpret human behavior and social interactions, and to identify anomalies in the environment.

The ASAT paradigm: *Baseline + Anomaly = Decision*

At the completion of this field practical application, Soldiers will be able to demonstrate, integrate, and apply ASAT knowledge, skills and attitudes.



Feedback

Student Testimonials



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"If given the choice I would prefer new Soldiers coming to my unit from OSUT be trained in ASAT rather than BRM. I can train them in rifle marksmanship, but I cannot train them in ASAT."
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5-day ASAT AAR/Survey Comments

Dated 25 FEB 12



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- SFC with four deployments

"I have been training snipers for 10 years, I believe that if I had this training when I started I could have better equipped my snipers and saved more lives."

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