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OPERATIONAL ASSESSMENT OF THE SPECIAL WEAPON AND TACTICS UNIT TOWARDS ACHIEVING OPTIMUM JOB EFFICIENCY

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Available Online: November 2025
Revised: October 2025
Accepted: October 2025
Received: September 2025

Volume III Issue 4 (2025)
DOI: 10.5281/zenodo.17767363
E-ISSN: 2984-7184
P-ISSN: 2984-7176
GET International Research Archives

Abstract

This study examines the operational factors that influence job efficiency among Special Weapons and Tactics (SWAT) units, integrating quantitative assessments to identify key predictors of performance. Using a correlational research design anchored in the Job Demands-Resources (JD-R) Model and Boyd's OODA Loop, data were collected from 98 NCR-based SWAT personnel through validated Likert-scale questionnaires. Descriptive results indicate consistently high ratings across all operational dimensions (overall M = 4.23, SD = 0.10), with Team Cohesion (M = 4.35) and Communication Systems (M = 4.31) emerging as the most effective factors. Job efficiency was likewise rated highly (overall M = 4.28, SD = 0.19), with Situational Awareness (M = 4.57) and Response Time (M = 4.48) ranking highest. Correlation analysis reveals strong and significant relationships between operational factors and efficiency indicators, most notably Leadership and Situational Awareness (r = .935, p < .001) and Team Cohesion with Collaboration (r = .827, p < .001). Regression results further identify Tactical Training as the strongest predictor of Tactical Proficiency (B = .675, p < .001), Equipment Availability as the primary driver of Decision-Making Accuracy (B = .545, p < .001), and Team Cohesion as the dominant influence on both Collaboration (B = .539, p < .001) and Situational Awareness (B = .819, p < .001). The findings underscore that job efficiency is maximized when human-centered factors—cohesion, leadership, communication, decision-making skills—are supported by reliable training and equipment resources. The study recommends leadership development, scenario-based decision training, communication protocol standardization, and strengthened equipment management. A holistic approach that integrates technical, cognitive, and relational capacities is essential for enhancing performance, resilience, and public trust in high-risk SWAT operations.

Keywords: *correlational research, job efficiency, law enforcement performance, SWAT operations*

Recommended Citation:
Ligson, H. L. (2025). OPERATIONAL ASSESSMENT OF THE SPECIAL WEAPON AND TACTICS UNIT TOWARDS ACHIEVING OPTIMUM JOB EFFICIENCY. GET INTERNATIONAL RESEARCH JOURNAL, 3(4), 54–70. https://doi.org/10.5281/zenodo.17767363

INTRODUCTION

Special Weapons and Tactics (SWAT) units were established to address high-risk situations that exceed the capabilities of standard police forces, such as hostage rescues, armed standoffs, and counter-terrorism operations. Designed to respond to increasing urban violence, these units combine specialized training, advanced equipment, and rapid response strategies. However, the militarization of SWAT has raised concerns about civil liberties, proportional use of force, and strained community relations (Roziere & Walby, 2020). Thus, balancing operational effectiveness with accountability and public trust has therefore become a central concern in contemporary crime control. Recent developments underscore the growing need for efficiency in high-risk operations where preparedness, decision-making, and teamwork are crucial. Technological tools such as UAVs and surveillance systems improve situational awareness, while continuous training and realistic simulations reinforce readiness under pressure (Ivanovski, 2023). Within this operational landscape, tactical training, equipment availability, communication, team cohesion, decision-making, and leadership have been identified as central to determining performance outcomes (Bangaysiso et al., 2024; Sarmiento et al., 2024). These factors form the backbone of operational success and are vital to understanding SWAT performance. Several studies have shown that adaptive training enhances tactical proficiency and decision-making accuracy, while adequate equipment ensures operational readiness (Sekel et al., 2023; Sayson & Sagayno, 2024). Likewise, effective communication and team cohesion strengthen collaboration during crises ("Ties," 2023), while participative and transformational leadership styles promote adaptability, motivation, and successful mission outcomes (Maria, 2024). Despite these findings, existing literature has not fully examined how these operational factors collectively influence job efficiency, particularly in the Philippine context where resource limitations and public trust issues persist (Lastimado & Rojas, 2004). This literature gap underscores the need for an integrated assessment of operational effectiveness and legitimacy. This study aims to analyze the relationship between operational assessment factors and job efficiency in SWAT units, guided by the Job Demands-Resources (JD-R) Model and Boyd's OODA Loop. Specifically, it evaluates tactical training, equipment, communication, cohesion, decision-making, and leadership, and their impact on proficiency, accuracy, collaboration, response time, and awareness. The study hypothesizes that these factors significantly influence efficiency and seeks to identify the strongest predictors. Findings are expected to inform training, equipment management, and operational strategies, providing law enforcement agencies, SWAT leaders, and future researchers with evidence-based recommendations that enhance performance while safeguarding public trust.

This study is anchored on the Job Demands–Resources (JD-R) Model and Boyd's Observe–Orient–Decide–Act (OODA) Loop, which together explain how operational conditions shape SWAT job efficiency. The JD-R Model provides the study's broader philosophical foundation, positing that performance results from the balance between job demands—such as high-risk decision-making, rapid mobilization, and complex tactical tasks—and job resources, including training, leadership, team cohesion, communication, and equipment. When resources sufficiently counterbalance demands, personnel maintain situational awareness, psychological resilience, and operational effectiveness. Complementing this, Boyd's OODA Loop explains the cognitive mechanisms that guide SWAT operatives in volatile and time-critical environments. The model illustrates how operators continuously cycle through situational scanning (Observe), meaning-making and threat assessment (Orient), selection of tactical response (Decide), and coordinated execution (Act). In SWAT operations, this cycle is accelerated and strengthened by

effective leadership, cohesive teams, reliable communication, and specialized training. Integrating these two frameworks, the present study examines how tactical training, decision-making skills, cohesion, communication, and equipment function as essential resources that enhance the efficiency of OODA processes, ultimately influencing proficiency, response time, accuracy, collaboration, and situational awareness during high-risk engagements.

Objectives

This study evaluates the SWAT unit's operational performance by examining key factors that influence job efficiency in high-risk operations. Specifically, it sought to answer the following questions:

1. How did the SWAT unit members rate the effectiveness of various operational assessment areas?
2. What was the perceived level of job efficiency among SWAT unit members during operations?
3. Is there a significant relationship between each operational assessment area and the perceived job efficiency of the SWAT unit?
4. Which operational assessment areas best influence the job efficiency of SWAT unit members?
5. Based on the findings, what specific interventions or improvements can be recommended to enhance the SWAT unit's job efficiency in the operational assessment areas that significantly influence performance?

METHODS

This study utilized a correlational research design to investigate the relationships between operational factors—tactical training, equipment, communication, team cohesion, decision-making, leadership—and job efficiency within a SWAT unit.

Population and Sampling

Using the GPower Analysis, 98 respondents from the NCR SWAT unit were purposefully chosen for the study. Commanding officers, tactical medics, support personnel, and both new and experienced operatives participated. This varied group offered a thorough understanding of SWAT performance and job efficiency in a high-risk urban environment by sharing insights on tactics, training, difficulties, decision-making, and interagency collaboration. Strictly followed were the ethical standards of consent, anonymity, and voluntary participation.

Instrumentations

To collect quantitative data on SWAT performance, the study used a structured Likert-scale questionnaire with an emphasis on teamwork, tactical readiness, equipment reliability, training adequacy, and decision-making. The purpose of this tool was to facilitate correlation analysis and determine the ways in which important operational factors affect overall job efficiency. A pilot test was carried out with seasoned SWAT members to guarantee validity and reliability. As a result of their input, the tool was improved to better reflect operational realities and facilitate accurate statistical analysis through changes that increased clarity, relevance, and structure.

Data Collection and Analysis

Obtaining approvals from SWAT commanders and NCR law enforcement agencies was the first step in the study's structured data collection process. The survey schedule was synchronized with unit operations, and participants gave formal consent. The questionnaire was improved for relevance and clarity through a pilot test. Purposively chosen SWAT officers, medics, and operatives were then given the validated tool, guaranteeing their anonymity and

confidentiality. In order to evaluate operational factors and perceived job efficiency, data were gathered via completed surveys and analyzed using descriptive statistics (mean, standard deviation, frequency). Multiple regression found efficiency predictors, while Pearson's correlation examined relationships between variables. Reliable insights and well-informed suggestions to improve SWAT performance were offered by this thorough statistical analysis.

Ethical Considerations

To guarantee the protection of participants' rights, privacy, and general well-being, this study was carried out strictly in accordance with ethical guidelines. The following guidelines were closely adhered to:

1. All participants gave their permission freely and in full after being fully informed about the goals, methods, and purpose of the study.
2. Right to Withdraw: Respondents were not subject to fines or other repercussions if they chose to withdraw at any time.
3. Anonymity and Confidentiality: To avoid traceability, data were anonymized and personal identifiers like names, ranks, or roles were eliminated.
4. Non-maleficence: To ensure that participants would not suffer any harm or discomfort, survey questions were crafted to steer clear of delicate or upsetting subjects.
5. Data Protection and Security: After the study, the data was properly disposed of or archived in locked, encrypted systems.
6. Transparency and Accurate Reporting: All limitations and potential conflicts of interest were explicitly stated, and the results were presented honestly.
7. The study maintained the validity and integrity of its findings while protecting the participants' rights and dignity by adhering to these ethical guidelines.

RESULTS and DISCUSSION

Presented below are the key findings and data analysis gathered from the SWAT unit's assessment of operational effectiveness toward achieving optimum job efficiency. The results highlight the ratings of six operational dimensions—tactical training, equipment availability, communication effectiveness, team cohesion, decision-making skills, and leadership—ranked according to their overall effectiveness scores.

Table 1. *SWAT Unit Members' Assessments of Operational Dimensions*

Dimensions	Mean	Standard Deviation	Adjectival Rating	Rank
Tactical Training	4.21	0.04	Extremely Effective	3.5
Equipment Availability	4.19	0.08	Effective	5
Communication Systems	4.31	0.21	Extremely Effective	2
Team Cohesion	4.35	0.16	Extremely Effective	1
Decision-Making Skills	4.12	0.02	Effective	6
Leadership	4.21	0.10	Extremely Effective	3.5
Overall	4.23	0.10	Extremely Effective	

Table 1 shows uniformly positive perceptions across all operational assessment areas (overall M = 4.23, SD = 0.10, "Extremely Effective"). Ranked first is Team Cohesion (M = 4.35, SD = 0.16, "Extremely Effective"), followed by Communication Effectiveness (M = 4.31, SD = 0.21, "Extremely Effective"). Tactical Training and Leadership tie at rank 3.5 (both M = 4.21), with Equipment Availability at rank 5 (M = 4.19) and Decision-Making Skills at rank 6 (M = 4.12). Standard deviations are small across dimensions, indicating strong consensus among SWAT members. The high ratings across operational dimensions reflect a Functionalist perspective, wherein each component of the SWAT system (training, communication, equipment, leadership) performs a specific function that contributes to organizational stability and operational effectiveness. The results also align with Pragmatism, emphasizing that the value of these operational dimensions is determined by their practical consequences—specifically, increased efficiency, reduced errors, and improved mission outcomes. This is consistent with the JD-R Model, which posits that high job resources (training, cohesion, leadership) buffer job demands and enhance performance.

Team Cohesion. As the top-rated domain, cohesion reflects a shared belief that camaraderie, trust, and mutual support are critical to mission success. This aligns with evidence that cohesive teams coordinate better and achieve superior performance on complex tasks (Gächter et al., 2023), that information sharing builds trust crucial to joint action in emergencies (Chubala et al., 2023), and that cohesive climates enhance collective efficacy (Ganotice et al., 2022). The result is highly relevant to SWAT operations where interdependence is extreme; however, the team should remain mindful of guarding against groupthink by pairing cohesion with structured critical-thinking checks. The emphasis on Team Cohesion reflects a Social Constructivist philosophy, where meaning, trust, and operational understanding are co-created through daily interaction and shared experiences. This is complemented by Phenomenology, as members perceive cohesion through lived experiences in high-risk operations. The finding aligns with the JD-R Model, where social resources significantly strengthen engagement, collective confidence, and operational fluency.

Communication Systems. High ratings for communication underline the value of clear, reliable information flow under stress. Prior discussions note that accurate, timely comms underpin a shared operational picture and situational awareness (Hamkar et al., 2024), support successful negotiation in crises (Degbor et al., 2023), and benefit from interpersonal familiarity within specialized teams (Isaikina & Navalna, 2022). The finding validates continued investment in protocols, tool reliability, and comms training, while balancing against the risk of "analysis paralysis" from over-communication (Cyr, 2022). The high rating of communication systems aligns with Systems Theory, which states that efficient information flow is essential to maintaining the integrity of a complex, interdependent operational system. Communication enables rapid coordination between units, allowing the team to effectively move through the first stages of the OODA Loop, particularly *Observe* and *Orient*, which depend on timely and accurate information exchange.

Tactical Training and Leadership. Members judge training as extremely effective, consistent with literature showing realistic, high-stress scenarios sharpen marksmanship, retention, and mission performance (Woodford & Webb, 2022). Emphasizing scenario fidelity and periodic curriculum refreshes (Khatsaiuk et al., 2023) keeps competencies current. For SWAT, this validates continued investment in immersive drills tied to measurable outcomes. Similarly, Leadership earns an "Extremely Effective" appraisal, mirroring prior notes that clear direction, support, and motivation elevate team performance (Uka & Prendi, 2021). Development in adaptive leadership and emotional intelligence is particularly relevant to maintaining morale, tempo, and coordination under uncertainty, while avoiding

over-centralization that could dampen initiative. The strong perceived effectiveness of tactical training reflects Behaviorist principles, where continuous repetition, reinforcement, and simulation shape automatic tactical behaviors. Leadership effectiveness is consistent with Transformative Learning Theory, emphasizing reflection, adaptation, and mindset transformation—critical during complex operations. These findings support both the JD-R Model, by enhancing job resources, and the Act stage of the OODA Loop, where well-trained, well-led teams translate decisions into coordinated action.

Equipment Availability. Perceptions are positive ("Effective") but comparatively lower, hinting at mild variability in quality or modernization. Prior evidence links up-to-date, reliable gear to readiness and operational success (Orr et al., 2020). For this study, the ranking suggests an opportunity: systematic audits, lifecycle management, and user-driven procurement could tighten the equipment–performance link, especially for comms, optics, and breaching kits. The relatively lower rating for equipment availability can be explained using Technological Determinism, which argues that operational outcomes are significantly shaped by the quality of technology available. Within the JD-R Model, equipment serves as a material job resource that reduces uncertainty, enhances competence, and facilitates quicker decision-making.

Decision-Making Skills. Although still rated "Effective," this dimension ranks last, signaling the most room for growth. The literature emphasizes a bias for timely action, use of decision gates, and experience-based heuristics to avoid indecision (Cyr, 2022), as well as team processes that improve shared cognition (Khan, 2023). Targeted training in recognition-primed decisions, red-team rehearsals, and cross-training roles can raise speed and accuracy without overconfidence. The lower rating for decision-making aligns with Cognitive Psychology, highlighting the mental limitations and stress-induced load affecting judgment in dynamic environments. It also reflects Rationalism, as decisions depend on the operator's ability to apply reasoning under pressure. This dimension connects directly to the OODA Loop, especially the *Orient* and *Decide* stages, where cognitive accuracy determines operational effectiveness.

The ranking pattern indicates that SWAT efficiency is sustained most strongly by team cohesion, communication, and leadership, with tactical training reinforcing readiness. Meanwhile, equipment availability and decision-making skills emerge as areas for strategic improvement. This balance highlights that while human factors remain the greatest strength, material resources and cognitive processes need reinforcement to sustain efficiency in high-pressure contexts. Concretely, the findings imply that SWAT units should prioritize decision-making development programs, integrate continuous equipment modernization, and sustain investments in cohesion and communication systems. By addressing these focal points, the unit can achieve a more balanced operational framework—ensuring resilience, adaptability, and mission success in increasingly complex law enforcement environments.

Table 2. *SWAT Unit Members' Assessments Across Job Efficiency Dimensions*

Dimensions	Mean	Standard Deviation	Adjectival Rating	Rank
Tactical Proficiency	4.21	0.04	Very Efficient	3
Decision-Making Accuracy	4.11	0.11	Efficient	6
Team Communication	4.15	0.06	Efficient	5
Collaboration	4.16	0.17	Efficient	4
Response Time	4.48	0.23	Very Efficient	2
Situational Awareness	4.57	0.21	Very Efficient	1
Overall	4.28	0.19	Very Efficient	

Table 2 indicates uniformly positive perceptions of job efficiency among SWAT members (overall M = 4.28, SD = 0.19, "Very Efficient"). Situational Awareness tops the rankings (M = 4.57, SD = 0.21), followed by Response Time (M = 4.48, SD = 0.23) and Tactical Proficiency (M = 4.21, SD = 0.04). Mid-tier is Collaboration (M = 4.16, SD = 0.17) and Communication Effectiveness (M = 4.15, SD = 0.06). Decision-Making Accuracy ranks lowest (M = 4.11, SD = 0.11), though still "Efficient." Small standard deviations across dimensions suggest strong consensus in ratings. The uniformly high efficiency scores reflect a **Pragmatic orientation**, where efficiency is judged by real-world outcomes—rapid responses, clear communication, and accurate tactical actions. The use of measurable indicators aligns with **Positivism**, which assumes that observable and quantifiable data represent true performance levels. These findings reinforce the **JD-R Model**, which predicts that high job resources translate into measurable performance gains.

Situational Awareness. The highest mean underlines that monitoring the environment, interpreting cues, and adapting in real time are perceived as the unit's strongest competencies. This aligns with evidence that superior SA supports faster, more accurate tactical execution and decision quality in high-stress contexts (Hansson & Borglund, 2024; Pei et al., 2024). Technology—such as sensor networks and shared operational pictures—can further elevate SA by feeding timely, fused data to operators (Kaniewski et al., 2023; D'Aniello & Gaeta, 2023). At the same time, the unit must guard against information overload, which can erode Situational Awareness in dynamic incidents; training that emphasizes cue filtering and prioritization helps preserve awareness under pressure (Vallikannu et al., 2023). For the research topic, this top ranking affirms SA as a central driver of job efficiency in complex SWAT operations. Situational awareness reflects **Phenomenology**, as operators interpret unfolding events through real-time experience. The concept is also rooted in **Embodied Cognition**, where physical positioning, sensory cues, and motor coordination shape perception. This matches the *Observe* and *Orient* phases of the **OODA Loop**, where awareness forms the foundation of rapid tactical decisions.

Response Time. Very high ratings for responsiveness signal confidence in rapid mobilization and first actions—critical in incidents where seconds matter. This dovetails with crisis decision literature emphasizing a bias for timely action and structured readiness (Cyr, 2022), as well as findings that specialized teams and realistic simulations compress time-to-intervention and improve outcomes (Sazlin et al., 2023). Effective inter-agency coordination networks also contribute to quicker, more synchronized responses (Hamkar et al., 2024). For SWAT efficiency, the result validates continued emphasis on pre-planned triggers, rehearsed playbooks, and cross-agency drills to sustain speed without sacrificing control. Response time aligns with a **Mechanistic view**, treating SWAT operations as a synchronized system of moving parts. From a **Functionalist perspective**, faster response supports the stability and effectiveness of the operational system. This directly reflects rapid cycling through the **OODA Loop**, favoring teams that compress the "Observe → Orient → Decide → Act" timeline.

Tactical Proficiency. The "Very Efficient" rating with extremely low variability indicates a stable, shared belief in the team's tactical skill—covering movement, breaching, marksmanship, and safe weapon handling. This resonates with research showing that rigorous, scenario-based training and continual refreshers strengthen technical execution and reduce force escalation risks (Jenkins, 2023; Ivanovski & Nedev, 2021; Khatsaiuk et al., 2023). Cognitive and physical readiness (Bogomolova et al., 2023) further anchor proficiency. For the study's aims, the finding suggests that tactical outputs benefit from sustained, realistic training cycles linked to objective performance metrics. Tactical proficiency aligns with **Behaviorism**, as repeated exposure to drills creates conditioned responses that minimize

hesitation and error. This proficiency is a job resource within the **JD-R Model**, enabling operators to perform effectively even under extreme demands.

Collaboration. Efficiency perceptions are strong for both intra-team and inter-agency collaboration. Literature shows cohesive, well-linked teams deliver better coordination and outcomes, and that real incidents often elicit stronger collaborative behaviors than exercises (Raut et al., 2024; Chubala et al., 2023). Police leaders play a key role in cultivating inter- and intra-organizational ties and common problem-solving frameworks that reduce friction during joint operations (Agbodzakey, 2024; Isaikina & Navalna, 2022). The result highlights collaboration as a keystone that translates individual skills into synchronized mission effects.

Team Communication. While still "Efficient," team communication trails collaboration slightly, suggesting a practical opportunity to tighten information flow. Prior work links clear protocols and reliable channels to goal attainment, motivation, and mitigation of asymmetric information (Hamkar et al., 2024; Vaccari, 2022; Isaikina & Navalna, 2022). In multi-agent settings, disciplined communications improve conflict resolution and joint task performance (Degbor et al., 2023), provided teams avoid overload and maintain brevity (Lematta et al., 2022). This means doubling down on radio discipline, common brevity codes, and post-mission feedback loops to refine what information is shared, when, and by whom.

Decision-Making Accuracy. Although positively rated, decision accuracy ranks last, pointing to the most room for improvement. Scholarship emphasizes the value of decision gates, recognition-primed strategies, and experiential cross-training to prevent indecision and speed high-quality choices under stress (Cyr, 2022; Thaci et al., 2024; Alder et al., 2019). Because stress can distort cognition and team interaction (Marshall, 2024), inquiry-based leadership that surfaces alternatives and checks bias can lift decision outcomes (Ukaidi et al., 2024). Within this research, the ranking suggests targeted decision-skills development could incrementally raise overall efficiency.

The mean responses show a people-centered strength stack—Situational Awareness, Response Time, and Tactical Proficiency—supported by solid Collaboration and Communication, with Decision-Making Accuracy as the clearest developmental lever. Concretely, the unit is operating from a position of high efficiency; to push toward optimal performance, it should (1) institutionalize decision-training that balances speed and accuracy, (2) refine communication protocols to streamline critical information, and (3) continue investing in SA-enabling tools and scenario-based drills. The implication for practice is a balanced modernization agenda that protects the unit's core advantages while deliberately closing the decision-quality gap—yielding a more resilient, adaptable SWAT capability aligned with the study's objective of achieving optimum job efficiency.

Table 3. *Correlation Coefficients Between Operational Assessment Areas and Job Efficiency Dimensions*

Variables	TP	DMA	TC	C	RT	SA
TT	.652***	.638***	.459***	.611***	.617***	.730***
EA	.554***	.749***	.608***	.676***	.654***	.754***
CS	.512***	.667***	.611***	.646***	.632***	.740***
TC	.398***	.575***	.607***	.827***	.774***	.809***
DMS	.372***	.568***	.578***	.805***	.819***	.808***
L	.419***	.627***	.627***	.790***	.779***	.935***

Note:
1. * means p < .05, ** means p < .01, *** means p < .001
2. Legends

Operational Assessment Dimensions
TT - Tactical Training
EA - Equipment Availability
CS – Communication Systems
TC - Team Cohesion
DMS - Decision-Making Skills
L – Leadership

Job Efficiency Dimensions
TP - Tactical Proficiency
DMA - Decision-Making Accuracy
TC – Team Communication
C - Collaboration
RT - Response Time
SA - Situational Awareness

Table 3 presents the correlation coefficients between operational assessment areas and perceived job efficiency dimensions among SWAT unit members. The highest correlation is observed between Leadership and Situational Awareness ($r = .935$, $p < .001$), indicating a very strong positive relationship. The lowest correlation is between Decision-Making Skills and Tactical Proficiency ($r = .372$, $p < .001$), though it remains statistically significant. Notably, Team Cohesion also shows a strong correlation with Collaboration ($r = .827$, $p < .001$), suggesting a significant link between team unity and collaborative efficiency.

Effective leadership is closely associated with heightened situational awareness during operations (Tyukhtenko & Garafonova, 2022; Weller et al., 2024; Chubala et al., 2023), featuring the importance of strong leadership in high-risk environments. The strong correlation between Team Cohesion and Collaboration indicates that cohesive teams are more effective in working together and coordinating efforts (Raut et al., 2024; Chubala et al., 2023; Guastello et al., 2022). The lower correlation between Decision-Making Skills and Tactical Proficiency suggests that tactical proficiency may depend on additional factors beyond decision-making abilities alone as noted by Endsley (2020). These findings highlight the critical role of leadership and team cohesion in enhancing job efficiency, suggesting that investments in leadership development and team-building initiatives could significantly improve SWAT unit performance in complex operational settings. The strong correlations reflect **Systems Theory**, indicating that operational factors and efficiency outcomes form an interdependent network. **Structural Functionalism** further explains that each operational dimension supports specific systemic roles, and their interactions create overall team stability and performance. These patterns support the **JD-R Model**, which posits that combined job resources have multiplicative—not merely additive—effects on performance.

Table 4. *Influence of Operational Assessment Areas on Tactical Proficiency*

Dependent Variables	Predictors	B	Std. Error	t	Sig.	Interpretation
Tactical Proficiency	Tactical Training	.675	.143	4.702	.000	Significant
	Equipment Availability	.043	.154	.279	.081	Not Significant
	Communication Effectiveness	.256	.141	1.813	.073	Not Significant
	Team Cohesion	.173	.191	.907	.009	Significant
	Decision-Making Skills	.067	.169	.394	.002	Significant
	Leadership	.101	.137	.737	.006	Significant
Decision-Making Accuracy	Tactical Training	.031	.123	.250	.803	Not Significant
	Equipment Availability	.545	.132	4.132	.000	Significant
	Communication Effectiveness	.219	.121	1.820	.035	Significant
	Team Cohesion	.295	.163	1.812	.035	Significant
	Decision-Making Skills	.067	.144	.465	.002	Significant
	Leadership	.143	.117	1.226	.016	Significant
	Tactical Training	.355	.153	2.327	.022	Significant

Team Communication	Equipment Availability	.371	.164	2.256	.026	Significant
	Communication Systems	.177	.150	1.179	.015	Significant
	Team Cohesion	.036	.203	.178	.049	Significant
	Decision-Making Skills	.010	.180	.055	.046	Significant
	Leadership	.322	.146	2.211	.030	Significant
Collaboration	Tactical Training	.461	.105	.574	.004	Significant
	Equipment Availability	.102	.113	.901	.370	Not Significant
	Communication Effectiveness	.277	.104	2.676	.009	Significant
	Team Cohesion	.539	.140	3.846	.000	Significant
	Decision-Making Skills	.362	.124	.499	.003	Significant
	Leadership	.278	.101	2.766	.007	Significant
Response Time	Tactical Training	.004	.118	.031	.000	Significant
	Equipment Availability	.022	.127	.174	.000	Significant
	Communication Effectiveness	.134	.116	1.154	.014	Significant
	Team Cohesion	.669	.157	.438	.002	Significant
	Decision-Making Skills	.162	.139	3.331	.001	Significant
	Leadership	.278	.112	2.478	.015	Significant
Situational Awareness	Tactical Training	.449	.074	.658	.005	Significant
	Equipment Availability	.017	.080	.211	.833	Not Significant
	Communication Effectiveness	.531	.073	.428	.002	Significant
	Team Cohesion	.819	.099	.195	.000	Significant
	Decision-Making Skills	.798	.087	.094	.000	Significant
	Leadership	.764	.071	10.787	.000	Significant

Table 4 summarizes how six operational assessment areas statistically influence each job-efficiency dimension. Patterns are clear: Tactical Training is the dominant driver of Tactical Proficiency; Equipment Availability most strongly predicts Decision-Making Accuracy; Tactical Training, Equipment Availability, and Leadership are the principal levers for Team Communication; Team Cohesion leads Collaboration; all six predictors register as significant for Response Time, and Situational Awareness is most powerfully shaped by Team Cohesion, Decision-Making Skills, and Leadership. Regression findings reflect **Determinism**, suggesting that specific operational factors systematically predict job efficiency outcomes. This is supported by **Empiricism**, as the study relies on measured and observable patterns to explain performance. The results reinforce the **JD-R Model**, showing that high job resources (training, cohesion, leadership) predict efficiency. The findings also align with the **OODA Loop**, as leadership, communication, and decision-skills directly shape how rapidly and accurately operators cycle through decision phases.

Tactical Proficiency. The strongest predictor is Tactical Training (B=.675, p<.001), confirming that realistic, stress-inoculated drills translate directly into on-task execution and precision (Woodford & Webb, 2022; Mamytko & Hadyko, 2024; Zhou & He, 2024; Khatsaiuk et al., 2023). Secondary, yet significant, contributors are Team Cohesion (B=.173, p=.009), Leadership (B=.101, p=.006), and Decision-Making Skills (B=.067, p=.002). Cohesion reinforces collective efficacy and smooth team coordination during entries and maneuvers (Ganotice et al., 2022; Chubala et al., 2023), while leadership clarifies objectives and reinforces standards. Decision-making skill adds speed/accuracy under pressure (Cyr, 2022). Equipment Availability and Communication Effectiveness are not significant here, implying that, for proficiency, training and human factors dominate.

Decision-Making Accuracy. Equipment Availability is the top driver (B=.545, p<.001): reliable, modern tools (optics, breaching, comms) reduce uncertainty and enable well-informed choices (Ukaidi et al., 2024; Thaci et al., 2024). Next are Team Cohesion (B=.295, p=.035) and Communication Effectiveness (B=.219, p=.035), which build a shared operational picture and reduce information asymmetry (Chehade et al., 2020; Vaccari, 2022). Leadership (B=.143, p=.016) and Decision-Making Skills (B=.067, p=.002) further improve judgement quality via decision gates, inquiry-based supervision, and cross-training (Cyr, 2022). Tactical Training is not significant here, suggesting that, beyond basic mastery, the availability of the right tools and team processes chiefly lift decision accuracy.

Team Communication. The largest effects come from Equipment Availability (B=.371, p=.026), Tactical Training (B=.355, p=.022), and Leadership (B=.322, p=.030). Updated platforms and disciplined training underpin clear, timely traffic; leadership standardizes protocols and enforces brevity/read-backs (Jenkins, 2023). Smaller but significant effects from Team Cohesion (p=.049) and Decision-Making Skills (p=.046) suggest that tight teams and fast cognitive cycles keep messages concise and actionable (Isaikina & Navalna, 2022).

Collaboration. Team Cohesion is the prime mover (B=.539, p<.001), validating that trust and mutual support are the substrate of seamless joint action (Chubala et al., 2023). Tactical Training (B=.461, p=.004) and Decision-Making Skills (B=.362, p=.003) follow—shared drills and recognition-primed decisions synchronize timing between elements. Leadership (B=.278, p=.007) and Communication Effectiveness (B=.277, p=.009) further align roles and information flows (Agbodzakey, 2024). Equipment Availability is not significant, implying that collaboration rests more on people and process than on hardware.

Response Time. All predictors are significant; coefficients suggest the largest practical levers are Team Cohesion (B=.669) and Leadership (B=.278), then Decision-Making Skills (B=.162), Communication Effectiveness (B=.134), Equipment Availability (B=.022), and Tactical Training (B=.004). Cohesion and leadership compress "time-to-move" by reducing hand-offs and clarifying triggers (Kunz, 2015; Abbasi et al., 2018). Decision-making skill adds a bias for timely action via decision gates and time-boxed options (Cyr, 2022), and disciplined comms prevents delay-inducing overload (Lematta et al., 2022).

Situational Awareness. The strongest influences are Team Cohesion (B=.819, p<.001), Decision-Making Skills (B=.798, p<.001), and Leadership (B=.764, p<.001), followed by Communication Effectiveness (B=.531, p=.002) and Tactical Training (B=.449, p=.005). Cohesion and leadership foster common frames and disciplined scanning; rapid sense-making converts cues into options (Weller et al., 2024; Chubala et al., 2023). Technology-enabled comms (e.g., fused sensor feeds) assists Situational Awareness but must be managed to avoid overload (Kaniewski et al., 2023; D'Aniello & Gaeta, 2023; Vallikannu et al., 2023). Equipment Availability is not significant here, suggesting SA is principally a team cognition outcome.

Team Cohesion, Leadership, Decision-Making Skills, Tactical Training, and Equipment Availability emerge as the keystone levers of job efficiency. The unit can raise overall efficiency by institutionalizing decision-centric training, hard-wiring cohesion through recurring multi-element scenarios and after-action reviews, investing in leadership development, and sustaining equipment reliability and communication SOPs. The suggestion prioritizes human systems while ensuring the material baseline keeps pace—producing a SWAT capability that is faster, more aware, and more accurate in the moments that matter most.

Recommended Improvements to Enhance SWAT Unit Job Efficiency

1. Enhancing leadership and decision-making is vital for SWAT performance. Advanced leadership programs focused on adaptive decision-making, crisis management, and effective communication will strengthen leaders' ability to guide teams under pressure, while feedback mechanisms will promote responsiveness. Strengthening these skills improves situational awareness, response time, and overall efficiency.
2. Improving team cohesion and psychological resilience fosters a supportive environment for efficiency. Regular team-building activities build trust and collaboration, while access to mental health resources, stress management, and resilience training supports focus during high-stress operations. These efforts enhance coordination, adaptability, and overall team performance.
3. Specialized training is essential for operational effectiveness. Programs that develop decision-making, situational awareness, and tactical proficiency through high-stress simulations prepare members to adapt quickly and perform accurately. Advanced awareness modules further strengthen environmental alertness, ensuring faster responses and greater mission success.
4. Upgrading communication systems and fostering effective communication are key to coordination. Investing in reliable equipment, standardizing protocols, and promoting feedback through debriefings improve information flow. Interagency collaboration via joint exercises also strengthens external communication, enhancing adaptability and operational capability.
5. Ensuring equipment readiness is fundamental to efficiency. Regular audits, timely updates, and proper maintenance of tactical gear guarantee reliability and availability. Well-maintained equipment enhances proficiency and decision-making accuracy, allowing members to operate effectively and increasing overall mission success.

CONCLUSION

The study's objective was to identify which operational assessment areas most strongly support optimum job efficiency in the SWAT unit. Across the dataset, members consistently rated tactical training, equipment availability, communication effectiveness, team cohesion, decision-making skills, and leadership as foundational to operational readiness. This convergence underlines a central principle for specialized law-enforcement work: performance in high-risk, high-pressure environments depends not only on robust material resources but also on sustained, integrated human-systems support—training that is realistic and iterative, structures that enable teamwork, and leadership that aligns effort under stress. Confidence ratings for tactical proficiency, decision-making accuracy, and situational awareness further reveal the performance recipe behind that readiness: units succeed when they deliberately cultivate situational adaptability, psychological resilience, and precise skill sets. Practically, this means pairing technical drills with stress-inoculation, after-action learning, and cross-training so that operators can read dynamic scenes quickly and act decisively. The same logic applies beyond SWAT—to disaster response and emergency services—where efficiency emerges from a blend of skills, resilience, and environmental awareness rather than from any single competency in isolation.

The correlational pattern—strong ties among leadership, cohesion, communication, and awareness—shows these competencies work as a system, not as stand-alone levers. The linkage between leadership and situational awareness indicates that clear intent, disciplined communication, and supportive supervision help create a vigilant culture that notices more, sooner, and shares it faster. For all teams operating amid rapid environmental shifts,

sustaining that leadership-cohesion-communication triad is essential to keep collective attention sharp and coordinated responses swift. Because of these interdependencies, improvements in tactical training, equipment readiness, leadership, and cohesion are likely to yield multiplicative—not merely additive—gains. Targeted investments in realistic scenario training, lifecycle equipment management, leader development (with an emphasis on adaptive decision-making), and team-building translate directly into faster, cleaner decisions and smoother collaboration under pressure. This aligns with practices in analogous fields where preparedness cycles and rigorous maintenance underpin agility and reliability when timelines are tight and stakes are high.

The evidence supports a holistic pathway to the study's aim of optimum job efficiency: maintain the current strengths in situational awareness, responsiveness, and tactical skill, while systematically tightening decision quality and communication flow through leader development, cohesion-building, and equipment modernization. Concretely, the unit should institutionalize decision-skills training and red-team rehearsals, standardize brevity-driven communication protocols with routine debriefs, and run structured equipment audits tied to operational feedback. By treating the operational dimensions as an integrated system and acting on them together, the SWAT unit can convert already strong readiness into consistently superior mission performance across diverse, high-risk scenarios.

Recommendations

Anchored on the study's aim of optimum job efficiency, an integrated program should target the specific gaps identified—lower decision-making accuracy, mid-tier communication effectiveness, and variability in equipment availability/quality—while preserving strengths in situational awareness, response time, tactical proficiency, and cohesion. Because leadership strongly shapes awareness and communication, leadership development is the most leverage-rich starting point. Deploy a tiered leadership curriculum (adaptive leadership, crisis decision-making, OODA/decision gates) paired with leader-led AARs and coaching on information prioritization. Simultaneously, sustain team cohesion and psychological resilience through structured team-building, CISM/resilience workshops, and embedded red-team roles to prevent groupthink. Track concise indicators (time-to-decision, clarity of command intent, team-climate and well-being checks) to ensure behavioral uptake. Run a progressive, scenario-based training cycle that fuses tactical drills, recognition-primed decision practice, stress inoculation, and cross-training to raise speed and accuracy without eroding SA. In parallel, modernize communications and standardize discipline. Monitor information latency, comms errors, and inter-agency handoff success to tighten coordination. Unify equipment readiness with governance: implement a life-cycle equipment program (quarterly audits, CMMS, pre-deployment checks, user-feedback loop) prioritizing domains that directly affect SA and rapid decisions. Establish a small performance improvement cell to maintain a dashboard of the above metrics, adjust training/procurement quarterly, and sequence changes logically—stabilize leadership and comms first, stress-test via scenarios, and fine-tune with readiness data. This interlinked approach addresses the study's problem areas while amplifying existing strengths, yielding sustained gains in SWAT job efficiency.

REFERENCES

Abbasi, A., Sadeghi-Niaraki, A., Jalili, M., & Choi, S. (2018). Enhancing response coordination through the assessment of response network structural dynamics. *PLoS ONE*, *13*(2), e0191130. https://doi.org/10.1371/journal.pone.0191130

Agbodzakey, J. (2024). Leadership in collaborative governance. In *SpringerBriefs in political science* (pp. 15–25). https://doi.org/10.1007/978-3-031-57373-6_2

Akhmadieva, L. R., & Assor, D. S. (2013). Trainees' individual characteristics as a key factor in improving training effectiveness. *National Psychological Journal, 10*(2), 61-68.

Alder, D. B., Causer, J., & Poolton, J. (2019). Training under pressure. In *Routledge eBooks* (pp. 359–374). https://doi.org/10.4324/9781315146270-20

Bogomolova, E. V., Kiselev, S. V., & Fediushkin, A. V. (2023). Readiness of military units and subunits to carry out tasks for their intended purpose. *Development of Education*, *6*(2), 12–18. https://doi.org/10.31483/r-106710

Chehade, S., Matta, N., Pothin, J., & Cogranne, R. (2020). Handling effective communication to support awareness in rescue operations. *Journal of Contingencies and Crisis Management*, *28*(3), 307–323. https://doi.org/10.1111/1468-5973.12317

Chubala, C. M., Hunter, A., Dithurbide, L., & Neyedli, H. F. (2023). Building Situation Awareness and Team Cohesion through Effective Information Sharing in a Distributed Team-Based Command and Control Scenario. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *67*(1), 710–715. https://doi.org/10.1177/21695067231192866

Cyr, K. (2022). Crisis decision making: lessons from a SWAT team. https://doi.org/10.69554/vore4147

D'Aniello, G., & Gaeta, M. (2023). Situation awareness in Human-Machine systems., 451–461. https://doi.org/10.1002/9781119863663.ch36

Degbor, D., Bedi, A., Zhang, S., & Chabot, E. (2023). Communication-Facilitated coordination in Agent Team Rescue mission. . https://doi.org/10.1109/csce60160.2023.00009

Endsley, M. R. (2020). Situation awareness in teams. In *CRC Press eBooks* (pp. 1–27). https://doi.org/10.1201/9780429459733-1

Gächter, S., Starmer, C., & Tufano, F. (2023). Measuring "Group cohesion" to reveal the power of social relationships in team production. *The Review of Economics and Statistics*, 1–45. https://doi.org/10.1162/rest_a_01283

Ganotice, F. A., Chan, L., Shen, X., Lam, A. H. Y., Wong, G. H. Y., Liu, R. K. W., & Tipoe, G. L. (2022). Team cohesiveness and collective efficacy explain outcomes in interprofessional education. *BMC Medical Education*, *22*(1). https://doi.org/10.1186/s12909-022-03886-7

Guastello, S. J., Bednarczyk, C., Hagan, R., Johnson, C., Marscisek, L., McGuigan, L., & Peressini, A. F. (2022). Team situation awareness, cohesion, and autonomic synchrony. *Human Factors the Journal of the Human Factors and Ergonomics Society*, *66*(4), 1186–1200. https://doi.org/10.1177/00187208221118301

Hamkar, N. A., Bashar, H., & Hikmat, H. (2024). Effective communication as a tool for achieving organizational goal and objective. *Journal for Research in Applied Sciences and Biotechnology*, *3*(3), 242–248. https://doi.org/10.55544/jrasb.3.3.37

Hansson, J., & Borglund, E. a. M. (2024). Situation awareness in tactical police interventions. *Journal of Police and Criminal Psychology*. https://doi.org/10.1007/s11896-024-09677-8

Isaikina, O., & Navalna, M. (2022). The role of effective communication in the process of forming a cohesive and motivated team. *University Economic Bulletin*, *53*, 59–66. https://doi.org/10.31470/2306-546x-2022-53-59-66

Ivanovski, J. (2023). The Importance and Relevance of The Special Police Units in Dealing with Modern Security Threats and Risks. *Faculty of Security – Skopje, 8*(1), 1-15. https://fb.uklo.edu.mk/wp-content/uploads/sites/10/2023/09/2023-8-1.pdf https://doi.org/10.20544/icp.8.1.23.p01

Ivanovski, J., & Nedev, A. (2021). Tactical efficiency in the process of handling and usage of firearms: Important security-related precondition for carrying out police duty. *Scientific Technical Union of Mechanical Engineering Industry 4.0, 5*(2), 58-60. https://stumejournals.com/journals/confsec/2021/2/58.full.pdf

Jenkins, B. (2023). The management of police specialized tactical units (3rd ed). *Police Practice and Research*, *24*(4), 516–517. https://doi.org/10.1080/15614263.2023.2181171

Kaniewski, P., Romanik, J., Zubel, K., Golan, E., R-Moreno, M. D., Skokowski, P., Kelner, J. M., Malon, K., Maślanka, K., Guszczyński, E., Szklarski, Ł., & Prasad, R. V. (2023). Heterogeneous wireless sensor networks enabled situational awareness enhancement for armed forces operating in an urban environment., *32*, 1–8. https://doi.org/10.1109/kit59097.2023.10297058

Khan, A. (2023). Making decisions in multiagency multiteam systems working in harsh situations. . https://doi.org/10.31219/osf.io/867bp

Khatsaiuk, O., Kolomoiets, O., Hohots, V., Kuzmenko, V., Oleksiienko, S., & Kyslytsia, S. (2023). Tactical preparedness of future law enforcement officers to use measures of physical influence (force) in extreme conditions of service and combat activity. *Scientific Journal of National Pedagogical Dragomanov University Series 15 Scientific and Pedagogical Problems of Physical Culture (Physical Culture and Sports)*, *8(168)*, 163–170. https://doi.org/10.31392/npu-nc.series15.2023.8(168).33

Kunz, S. (2015). Injuries and deaths during police operations: special weapons and training teams. In *Elsevier eBooks* (pp. 159–165). https://doi.org/10.1016/b978-0-12-800034-2.00230-5

Lastimado, A. R., & Rojas, A. G. (2004). The Armed Force of the Philippines and special operations. *Naval Postgraduate School.* Monterey, CA.

Lematta, G. J., Bhatti, S. A., Graham, H. D., Kim, J., Fazio, W. C., Holder, E., & Cooke, N. J. (2022). Team communication in Pre-Mission briefs and effectiveness in distributed action teams. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *66*(1), 1596–1600. https://doi.org/10.1177/1071181322661219

Mamytko, A., & Hadyko, O. (2024). Technical and tactical training as the main factor in the formation of sportsmanship of football players of different ages. *Scientific Journal of National Pedagogical Dragomanov University Series 15 Scientific and Pedagogical Problems of Physical Culture (Physical Culture and Sports)*, *7(180)*, 103–106. https://doi.org/10.31392/udu-nc.series15.2024.7(180).21

Maria, C. D. (2024). EXPLORING TEAM COHESION IN PROJECT MANAGEMENT. *Management & Marketing*, *22*(1), 89–101. https://doi.org/10.52846/mnmk.22.1.08

Marshall, A. (2014). Toward a model of team decision making under stress. https://stars.library.ucf.edu/cgi/viewcontent.cgi?article=2590&context=honorstheses1990-2015

Orr, R., Kukic, F. V., Marins, E., Lim, C., Dawes, J., & Lockie, R. (2020). The impact of load carriage on Lower-Body power in SWAT police. ., *10*, 749–758. http://eskup.kpu.edu.rs/dar/article/download/229/152

Pei, Z., Zhao, W., Hu, L., Zhang, Z., Luo, Y., Wu, Y., & Jin, X. (2024). Factors affecting the situational awareness of armored vehicle occupants. *Sensors*, *24*(11), 3688. https://doi.org/10.3390/s24113688

Raut, A. S., Chaturvedi, C., Kaila, F., & Gajjar, D. (2024). ACHIEVING ORGANIZATIONAL GOALS IN THE BANKING SECTOR THROUGH EFFECTIVE TEAM COLLABORATION. In. (pp. 14–25). https://doi.org/10.58532/v3bhma23p1ch2

Roziere, B., & Walby, K. (2019). Special weapons and tactics teams in Canadian policing: legal, institutional, and economic dimensions. *Policing & Society,* *30*(6), 704–719. https://doi.org/10.1080/10439463.2019.1586899

Sarmiento, L. F., Lopes da Cunha, P., Tabares, S., Tafet, G., & Gouveia Jr, A. (2024). Decision-making under stress: A psychological and neurobiological integrative model. *Brain, Behavior, & Immunity - Health,* 100766. https://doi.org/10.1016/j.bbih.2024.100766

Sayson, N. Y. C., Sagayno, N. R. C., Bangaysiso, J. K. V., Sabijon, N. D. F., & Nillama, N. V. R. A. (2024). Lives beyond the badge: Exploring the work-life balance of special weapons and tactics (SWAT) operatives. *International Journal of Law and Politics Studies, 6*(3), 193-217. https://doi.org/10.32996/ijlps.2024.6.3.16

Sazlin, S., Sabri, S., Ramzi, M., Hussain, M., Sani, J., Hamed, S., & Rusli, N. (2023). Emergency Response Team (ERT) as an emergency management for campus environment. *Asian Journal of Research in Education and Social Sciences*. https://doi.org/10.55057/ajress.2023.5.4.30

Sekel, N. M., Beckner, M. E., Conkright, W. R., LaGoy, A. D., Proessl, F., Lovalekar, M., Martin, B. J., Jabloner, L. R., Beck, A. L., Eagle, S. R., Dretsch, M. N., Roma, P. G., Ferrarelli, F., Germain, A., Flanagan, S. D., Connaboy, C., Haufler, A. J., & Nindl, B. C. (2023). Military tactical adaptive decision making during simulated military operational stress is influenced by personality, resilience, aerobic fitness, and neurocognitive function. *Frontiers in Psychology,* *14*, Article 1102425. https://doi.org/10.3389/fpsyg.2023.1102425

Thaci, H., Tambunan, T. S., & Aritonang, B. E. (2024). EFFECTIVENESS OF ORGANIZATIONAL COMMUNICATION ON DECISION MAKING. *JMRI Journal of Multidisciplinary Research and Innovation*, *2*(1), 1–7. https://doi.org/10.61240/jmri.v2i1.58

Ties. (2023). In *Cambridge University Press eBooks* (pp. 100–117). https://doi.org/10.1017/9781009262170.007

Tyukhtenko, N., & Garafonova, O. (2022). EFFECTIVE LEADERSHIP AS a MANAGEMENT FACTOR TO ENSURE THE COMPETITIVENESS OF THE ENTERPRISE IN THE MODERN MARKET ENVIRONMENT. *Odessa National University Herald Economy*, *27*(4(94)). https://doi.org/10.32782/2304-0920/4-94-6

Ukaidi, C. U. A., Maina, E. M., Ukaidi, E. U., & Aleke, J. U. (2024). Information communication technology and decision making effectiveness of selected money deposit banks in Nigeria. *IDOSR JOURNAL OF CURRENT ISSUES IN ARTS AND HUMANITIES*, *10*(1), 1–9. https://doi.org/10.59298/idosrjciah/2024/101.90004

Vaccari, F. (2022). Efficient communication in organizations. *arXiv (Cornell University)*. https://doi.org/10.48550/arxiv.2211.13605

Vallikannu, R., Rani, V. K., Kavitha, B., & Sankar, P. (2023). An analysis of situational intelligence for first responders in military. https://doi.org/10.1109/icaia57370.2023.10169306

Weller, J. M., Mahajan, R., Fahey-Williams, K., & Webster, C. S. (2024). Teamwork matters: team situation awareness to build high-performing healthcare teams, a narrative review. *British Journal of Anaesthesia*, *132*(4), 771–778. https://doi.org/10.1016/j.bja.2023.12.035

Woodford, K. M., & Webb, H. E. (2022). Marksmanship accuracy and precision after tactical exercises among Special Weapons and Tactics (SWAT) team operators. *Medicine & Science in Sports & Exercise*, *54*(9S), 135. https://doi.org/10.1249/01.mss.0000876724.21385.42

Zhou, Z., Feng, C., & He, P. (2024). The impact of tactical styles on consequences of soccer games. *Communications in Humanities Research*, *28*(1), 271–276. https://doi.org/10.54254/2753-7064/28/20230384