GEOINT Professional Certification
Fundamentals: Proficiency Level I (GPC-F)
Essential Body of Knowledge (EBK)
21 July 2025

Core Competency 1 - Processes and Techniques (15%)
Demonstrate understanding of processes and techniques used in Geospatial Intelligence (GEOINT) problem solving.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 1: Identify the fundamental GEOINT concepts and principles used in processes and techniques to solve GEOINT problems.

ECO 1.1: Identify the principles of Geospatial Analysis.

ECO 1.2: Identify the principles of Imagery Analysis.

ECO 1.3: Identify the principles of Cartography.

ECO 1.4: Identify the principles of Human Geography.

ECO 1.5: Identify the principles of Imagery Science.

ECO 1.6: Identify safety of navigation principles from seabed to space.

ECO 1.7: Identify the principles of Geodetic Applied Sciences (e.g. Earth Sciences, Orbit Sciences, Bathymetry, etc.)

TCO 2: Understand GEOINT processes and techniques to solve problems.

ECO 2.1: Describe GEOINT analytic problem solving techniques and processes.

ECO 2.2: Discuss remotely sensed GEOINT phenomenology processing and techniques.

ECO 2.3: Discuss geospatial data processing (e.g., unstructured data, data conflation, and data validation).

TCO 3: Understand analytic tradecrafts used to solve GEOINT problems.

ECO 3.1: Describe GEOINT tradecraft missions (e.g., Aeronautical Analysis, Imagery Analysis, Geospatial Analysis, etc.)

Core Competency 2 - Collection and Tasking Principles (8%)
Understand source evaluation principles, tasking procedures, and collection requirements.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 4: Understand GEOINT sensors, collectors, and tasking principles.

ECO 4.1: Describe the types, capabilities, and limitations of GEOINT sensors and collectors.

ECO 4.2: Discuss the tasking principles associated with GEOINT collection systems.

Core Competency 3 - Customer Requirements and Service (6%)
Understand GEOINT collection and production requirements.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 5: Understand GEOINT products, services, and customers.

ECO 5.1: Understand uses of GEOINT products and services.

Core Competency 4 - Data Evaluation Principles (9%)
Understand basic principles and techniques used to evaluate the utility and quality of geospatial data.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 6: Understand standards and criteria used to process and exploit geospatial data.

ECO 6.1: Explain the role and function of geospatial data standards (e.g., metadata, exploitation, projection, and accuracy)

ECO 6.2: Explain the role and function of geospatial data selection criteria.

ECO 6.3: Define accuracy as it relates to geospatial source analysis, preparation, and evaluation.

Core Competency 5 - Geographic Information (10%)
Understand the principles of Geographic Information Systems (GIS) to display and analyze geospatial data.
Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 7: Understand Geographic Information System (GIS) principles.
ECO 7.1: Describe functions of a Geographic Information System (GIS).
ECO 7.2: Identify components of a Geographic Information System (GIS).
TCO 8: Understand how Geographic Information Systems (GIS) tools are used to conduct GEOINT Analysis.
ECO 8.1: Discuss concepts of geospatial data principles and their relationship to geospatial analysis.
ECO 8.2: Understand how Geographic Information Systems (GIS) are utilized to process and convey geospatial data.

Core Competency 6 - GEOINT Doctrine (10%)
Understand GEOINT Authorities, Standards, Policies, and Practices.
Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 9: Understand GEOINT concepts and terms.
ECO 9.1: Describe GEOINT.
TCO 10: Understand the concepts and principles associated with laws, regulations, directives, and guidelines governing the GEOINT community.
ECO 10.1: Explain laws and regulations that govern GEOINT operations.
ECO 10.2: Discuss the roles and responsibilities of the GEOINT Functional Manager (GFM) and Defense Intelligence Enterprise Manager (DIEM) for GEOINT.
ECO 10.3: Describe the combatant commands (CCMD) and the service component commands GEOINT roles and responsibilities.

Core Competency 7 - Information Production and Dissemination (10%)
Understand the production and dissemination of intelligence and data to mission partners, organizations, and individuals to support the GEOINT mission.

Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 11: Understand GEOINT processing and exploitation concepts.
ECO 11.1: Compare and contrast data vs intelligence.
TCO 12: Understand information dissemination tools and methods.
ECO 12.1: Describe the functions of GEOINT Software Applications.
ECO 12.2: Describe GEOINT dissemination methods.

Core Competency 8 - Intelligence Issues (9%)
Understand how intelligence issues impact national and defense GEOINT mission priorities.

Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 13: Understand GEOINT priorities.
ECO 13.1: Describe Intelligence Priorities Frameworks and how they shape GEOINT priorities.
TCO 14: Understand customer operations and requirements that influence GEOINT priorities.
ECO 14.1: Describe the purpose of Key Intelligence Questions (KIQ), Commanders Critical Information Requirements (CCIR), and Priority Intelligence Requirements (PIR).
ECO 14.2: Discuss how the GEOINT operations process supports national and defense missions.
ECO 14.3: Describe how GEOINT supports intelligence and operations planning.
ECO 14.4: Describe the purpose of Essential Elements of Information (EEI) and Analytic Initiatives.

Core Competency 9 - NSG and ASG (5%)
Understand the National System for Geospatial Intelligence (NSG) and Allied System for Geospatial Intelligence (ASG).
Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 15: Understand the membership, responsibilities, and mission of the National System for Geospatial Intelligence (NSG) and Allied System for Geospatial Intelligence (ASG).
ECO 15.1: Identify members of the National System for Geospatial Intelligence (NSG) and Allied System for Geospatial Intelligence (ASG) communities in terms of their respective missions.
ECO 15.2: Discuss the responsibilities of the National System for Geospatial Intelligence (NSG) and Allied System for Geospatial Intelligence (ASG).
ECO 15.3: Describe the GEOINT capabilities of National System for Geospatial Intelligence (NSG) members and partners.

Core Competency 10 - Quality Assurance (5%)
Understand quality assurance in processing and exploiting GEOINT.
Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 16: Understand the role of quality assurance in processing and exploiting GEOINT.
ECO 16.1: Discuss the Intelligence Community analytic standards.
ECO 16.2: Describe how quality assurance of GEOINT is critical to analysis, planning, and operations.

Core Competency 11 - Research and Information Gathering (5%)
Understand strategies, techniques, and technologies used to identify, acquire, and filter sources of information.
Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 17: Understand tools and methods for identifying, acquiring, and filtering sources of information.
ECO 17.1: Identify resources for discovering, querying, and retrieving GEOINT data.

Core Competency 12 - Security Classification Control and Disclosure/Release (8%) Understand the policies and procedures involved with classification, control, and disclosure/release of information, intelligence, and data.
Terminal and Enabling Certification Objectives (TCOs & ECOs)
TCO 18: Understand policies and procedures for classifying, marking, handling, and safeguarding protected concepts and terminologies.
ECO 18.1: Discuss the purpose, requirements, and use of GEOINT classification markings.
ECO 18.2: Discuss the purpose, requirements, and use of GEOINT security classification guidance.
ECO 18.3: Discuss the purpose, requirements, and use of GEOINT disclosure/release policies and guidelines.
ECO 18.4: Discuss the purpose, requirements, and use of GEOINT destruction and disposal guidelines.
ECO 18.5: Discuss the purpose, requirements, and use of GEOINT sanitization guidelines.