

GPC-AA II

Essential Body of Work & Knowledge (EBW/EBK)
 GEOINT Professional Certification - Aeronautical Analysis: Proficiency Level II
 8 February 2017 (current version can be found at <http://gpc.nga.ic.gov>)



AA-II Core Competency 1 - Safety of Navigation: Aeronautical Governance and Industry (10%)
 Understands policy and mandates governing production and distribution of Aeronautical Geospatial-Intelligence (GEOINT). Applies knowledge of airspace and airfield structure to allow modifications to aeronautical databases and product sets. Understands aeronautical GEOINT output in relation to use by the Department of Defense (DoD) aviation community.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 1: Comprehend the mandates governing aeronautical GEOINT production

ECO 1.1: Discuss the mandates governing production and use of aeronautical GEOINT.

TCO 2: Apply knowledge of key components pertaining to structure of airspace, airfields, and terminal areas

ECO 2.1: Identify and describe major airspace components and structure.

ECO 2.2: Describe and present major runway and airfield components and structure.

ECO 2.3: Present and discuss major terminal area components and structure.

ECO 2.4: Define and recognize aeronautical navigation rules and procedures.

TCO 3: Comprehend data functionality

ECO 3.1: Outline and restate basic use and functionality of aeronautical GEOINT in airborne Flight Management Systems, Mission Planning tools, etc.

AA-II Core Competency 2 - Customer Requirements: Aeronautical Source (25%)
 Understands International Civil Aviation Organization (ICAO) and internal work and management policies on aeronautical source receipt and distribution on a macro level. Identifies and applies aeronautical source material from host nations around the globe and from the DoD aviation community. Applies and interprets relevant source necessary for production in assigned area(s). Leverages understanding of source receipt, work processes, and routing to ensure the most recent, updated, and accurate source is used during production.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 4: Comprehend the tools and methods used to identify, acquire, and evaluate sources and information related to Geospatial Intelligence.

ECO 4.1: Describe how to extract collateral data from databases and libraries. (i.e. Intelink advanced search, complex word search)

ECO 4.2: Discuss methods used to discover geospatial or intelligence source material to satisfy intelligence problem.

TCO 5: Apply knowledge of the origination of Host Nation and Department of Defense (DoD) Source

ECO 5.1: Outline and explain the necessity and major features of Host Nation agreements.

ECO 5.2: Define and distinguish who the lead agency is for defining aeronautical GEOINT requirements.

ECO 5.3: Apply the Department of Defense (DoD) and customer requirements process in terms of the Working Groups.

TCO 6: Apply knowledge of the processes used to collect, receive, and handle Source information

ECO 6.1: Apply the types of valid aeronautical source.

ECO 6.2: State how aeronautical source, to include amendments and updates, is disseminated from the provider to the organization.

ECO 6.3: Present how aeronautical source is routed and problems are handled within the aeronautical domain.

ECO 6.4: Define how relevant source is stored and maintained for use in the production of aeronautical GEOINT products and services.

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AA-II Core Competency 3 - Production: Aeronautical GEOINT Production (25%)

Possesses a thorough understanding of aeronautical Safety of Navigation data and products. Applies knowledge of substantiated work processes and policies for production of aeronautical GEOINT. Uses knowledge of hardware and software applications in daily work. Understands basic imagery functionality and products that support the Intelligence Community.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 7: Apply knowledge of Aeronautical GEOINT products

ECO 7.1: Outline and interpret the purpose of DAFIF.

ECO 7.2: Outline and describe the purpose of FLIP.

ECO 7.3: Apply the purpose of AAFIF.

ECO 7.4: List and distinguish features and elements of DAFIF.

ECO 7.5: Distinguish and apply features and elements of FLIP.

ECO 7.6: Identify and distinguish AAFIF features and elements.

ECO 7.7: Define Vertical Obstruction types and attributes.

TCO 8: Apply knowledge of tools and methods used in Aeronautical GEOINT production processes

ECO 8.1: Distinguish the relationships between Users Guides, Help Screens/Files, the Database Training Manual, and Product Specifications.

ECO 8.2: Summarize grids, projections, datums, and coordinates in terms of their use in aeronautical analysis and aeronautical GEOINT.

ECO 8.3: Apply imagery collection and interpretation techniques to identify aeronautical features.

ECO 8.4: List and distinguish basic Geographic Information and Systems (GIS) and imagery exploitation tools in support of aeronautical analysis.

TCO 9: Know and comprehend Aeronautical systems and software

ECO 9.1: Identify and describe major systems and software used to produce Aeronautical GEOINT.

TCO 10: Know and comprehend support and collaboration activities required for intelligence assessments

ECO 10.1: Outline and restate the major elements of aeronautical-related intelligence products and coordination processes supporting intelligence assessments.

ECO 10.2: Define and describe elements of Disclosure and Release Policies as they relate to aeronautical Limited Distribution (LIMDIS).

AA-II Core Competency 4 - Quality Assurance: Aeronautical Quality (15%)

Maintains operational knowledge of aeronautical quality processes. Versed in key attributes of the aeronautical Quality Management System (QMS) such as process improvements and auditing. Applies knowledge of customer feedback mechanism and how to initiate possible remedies to deficiencies or ineffective procedures in the quality system. Explains and applies management and utility of quality metrics.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 11: Apply knowledge of the functions of the Aeronautical Quality Management System (QMS)

ECO 11.1: Identify and recognize important features of the Aeronautical Quality Management System (QMS) in terms of how they pertain to aeronautical quality assurance.

TCO 12: Apply knowledge of aeronautical quality process improvements

ECO 12.1: Summarize and present how customers submit recommended changes to aeronautical data and products.

ECO 12.2: Summarize and present how process improvements, to include identification of deficiencies in quality or ineffective processes, can be made by utilizing the Quality Management System (QMS).

ECO 12.3: Apply the process for Product Change Proposals.

TCO 13: Apply knowledge of how quality metrics apply to Aeronautical Analysts

ECO 13.1: Present and discuss metrics, databases, and tools that provide statistics on quality and process effectiveness.

ECO 13.2: Summarize and present how metrics are analyzed to determine data input results and possible areas of concern.



AA-II Core Competency 5 - Data Processing: Aeronautical Data (10%)

Understands data conformance to include data quality and processing requirements. Knows data supplier responsibilities within the aeronautical data chain. Identifies and describes Type 1 Data Letter of Acceptance (LOA) provisions and how the aeronautical analysis tradecraft complies with them using the CNS/ATM Compliance Plan.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 14: Know and comprehend essential elements of data conformance

ECO 14.1: Describe the purpose and applicability of data processing requirements.

ECO 14.2: Define and recognize the Aeronautical Data Chain and Data Supplier responsibilities.

ECO 14.3: Distinguish between the seven Data Quality Requirements (DQR).

ECO 14.4: Identify and interpret the purpose and applicability of a Type 1 Data Letter of Acceptance (LOA).

TCO 15: Know and comprehend data management using Communication Navigation Surveillance / Air Transport Management (CNS/ATM) Compliance Plan requirements

ECO 15.1: Summarize how aeronautical tradecraft quality and processing requirements support data conformance.

ECO 15.2: Outline and describe how Communication Navigation Surveillance / Air Transport Management (CNS/ATM) Compliance Plan requirements affect aeronautical GEOINT production.

AA-II Core Competency 6 - Customer Operations: Aeronautical Customer Service and Data/Product Access (15%)

Applies various means to assist customers to include aeronautical help desk operations, the customer feedback process, and Notice to Airmen (NOTAM) criteria and issuance. Maintains understanding of key relationships with external entities and their role in aeronautical GEOINT production. Understands the ways aeronautical GEOINT is made available to entire customer base.

Terminal and Enabling Certification Objectives (TCOs & ECOs)

TCO 16: Apply knowledge of customer service mechanisms to include Notices to Airmen (NOTAM)

ECO 16.1: Apply key facets of aeronautical Help Desk operations.

ECO 16.2: Outline and summarize the aeronautical customer feedback process and parameters.

ECO 16.3: Recognize the need for Notice to Airmen (NOTAM) action and issuance as well as demonstrate how to communicate with colleagues about NOTAM issuance.

TCO 17: Apply knowledge of aeronautical on-line and on-demand data/product dissemination and access

ECO 17.1: Apply processes used to acquire NGA Aeronautical data at identified locations.

ECO 17.2: Outline elements of the aeronautical application for mobile devices.

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AAFIF Specification
ADDE/FLIP Guidance
Aeronautical Help Desk Procedure
Aeronautical Information Processing Procedure
Aeronautical Orientation Program Syllabus
Aeronautical Products Website
Aeronautical Tools - A Primer
Aeronautical Working Groups - A Primer
Airfield Interpretation Handbook
CAR/PAR/OFI Procedure
CNSATM Compliance Plan
Customer Feedback Procedure
DAFIF NOTAM Criteria
DAFIF Specification
DoD Aeronautical Application-iOS
FAA Advisory Circular (AC) 20-153A
FLIP General Planning
FLIP Intellipedia Page
FMS and Aeronautical Data - A Primer