



# Department of Defense **INSTRUCTION**

**NUMBER** 3305.16

August 13, 2015

Incorporating Change 2, Effective October 1, 2020

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USD(I&S)

**SUBJECT:** DoD Measurement and Signature Intelligence (MASINT) Training and Certification

**References:** See Enclosure 1

1. **PURPOSE.** In accordance with the authority in DoD Directive (DoDD) 5143.01 (Reference (a)), this instruction:

a. Reissues DoD Instruction (DoDI) 3305.16 (Reference (b)) to establish policy, assign responsibilities, and provide procedures for the conduct of DoD MASINT training and certification of DoD personnel, in accordance with DoDI 5105.58, DoDI 3115.11, and DoDD 1322.18 (References (c), (d), and (e)).

b. Assigns the Director, Defense Intelligence Agency (DIA), as the DoD MASINT training and certification functional manager, as a subset of responsibilities in Reference (c) as the DoD MASINT Manager.

c. Authorizes the establishment of DoD MASINT training and certification governance bodies comprised of the representatives of the DoD Components. These bodies report through the Director, DIA, to the DoD Intelligence Training and Education Board in accordance with Reference (d).

2. **APPLICABILITY.** This instruction applies to OSD, the Military Departments (including the Coast Guard at all times, including when it is a Service in the Department of Homeland Security by agreement with that Department), the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of the Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD (referred to collectively in this instruction as the “DoD Components”).

3. **POLICY.** It is DoD policy that:

a. The DoD will develop and maintain MASINT training and certification programs.

b. All DoD MASINT training and certification will:

(1) Support DoD missions.

(2) Be operationally and technically sound.

(3) Focus on the development of the knowledge, skills, and abilities (KSAs) required to perform MASINT activities.

c. DoD MASINT training and certification programs are resourced in DoD Component planning, programming, budgeting, and execution actions in accordance with DoDD 7045.14 (Reference (f)).

d. All MASINT training and certification for DoD personnel will be implemented in accordance with Reference (e).

4. RESPONSIBILITIES. See Enclosure 2.

5. INFORMATION COLLECTION REQUIREMENTS. The Annual Report of Intelligence and Security Training, Education, and Certification, referred to in paragraph 2h of Enclosure 2 of this instruction, has been assigned report control symbol DD-INT(A,SA)2252 and is prescribed in DoD Manual 3115.11 (Reference (g)).

6. RELEASABILITY. **Cleared for public release.** This instruction is available on the Directives Division Website at <https://www.esd.whs.mil/DD/>.

8. SUMMARY OF CHANGE 2. This administrative change updates the title of the Under Secretary of Defense for Intelligence to the Under Secretary of Defense for Intelligence and Security in accordance with Public Law 116-92 (Reference (h)).

7. EFFECTIVE DATE. This instruction is effective August 13, 2015.

A handwritten signature in black ink, appearing to read 'M. Lettre', with a stylized flourish at the end.

Marcel Lettre  
Acting Under Secretary of Defense  
for Intelligence

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ENCLOSURE 1

REFERENCES

- (a) DoD Directive 5143.01, “Under Secretary of Defense for Intelligence and Security (USD(I&S)),” October 24, 2014, as amended
- (b) DoD Instruction 3305.16, “DoD Measurement and Signature (MASINT) Training,” June 12, 2008 (hereby cancelled)
- (c) DoD Instruction 5105.58, “Measurement and Signature Intelligence (MASINT),” April 22, 2009, as amended
- (d) DoD Instruction 3115.11 “DoD Intelligence Human Capital Management Operations,” January 22, 2009, as amended
- (e) DoD Directive 1322.18, “Military Training,” October 3, 2019
- (f) DoD Directive 7045.14, “The Planning, Programming, Budgeting, and Execution (PPBE) Process,” January 25, 2013, as amended
- (g) DoD Manual 3115.11, “DoD Intelligence and Security Training Standards,” March 24, 2015, as amended
- (h) Public Law 116-92, “National Defense Authorization Act for Fiscal Year 2020,” December 20, 2019

ENCLOSURE 2

RESPONSIBILITIES

1. UNDER SECRETARY OF DEFENSE FOR INTELLIGENCE AND SECURITY (USD(I&S)). In accordance with References (a) and (c), the USD(I&S):

- a. Establishes policy and provides direction and oversight for DoD MASINT training and certification to the DoD Components and assigns training and certification responsibilities as necessary.
- b. Reviews DoD MASINT standards, training, and certification programs periodically and provides recommendations to the DoD Components.
- c. Develops and distributes MASINT training and certification guidance in accordance with the strategic planning guidance, defense intelligence guidance, and other appropriate OSD policy guidance. This guidance will identify MASINT training and certification requirements during the program and budget build and during development of supplemental resource requests. Reviews MASINT resource requests from the Director, DIA, and provides additional guidance as required.
- d. Evaluates and implements, as appropriate, MASINT training and certification recommendations from the Director, DIA, on policies, standards, responsibilities, or related MASINT matters for use in appropriate policy, oversight, and guidance.
- e. Coordinates policies on MASINT training and certification of DoD military and civilian personnel with the Under Secretary of Defense for Personnel and Readiness (USD(P&R)).
- f. Ensures incorporation of MASINT training and certification standards into other DoD training as appropriate in accordance with References (a) and (d).

2. DIRECTOR, DIA. Under the authority, direction, and control of the USD(I&S), and in addition to the responsibilities in section 4 of this enclosure, the Director, DIA:

- a. Establishes and maintains MASINT training standards and MASINT certifications in accordance with References (a), (c), and (d) in coordination with the DoD Components.
- b. Conducts MASINT training and certification for the Defense intelligence workforce in accordance with Reference (c). Shares training, content, and training facilities with other DoD Components and functional managers to the maximum extent possible, as appropriate, to achieve efficiencies and implement training standards.

c. Submits DoD MASINT training and certification resource requirements to the USD(I&S) in accordance with Reference (f) for inclusion in the various defense planning documents for the planning, programming, budgeting, and execution process.

d. Designates a lead for all matters related to DoD MASINT management, to include training and certification, in accordance with Reference (c).

e. Establishes and oversees MASINT training and certification governance bodies to provide a forum for MASINT training and certification collaboration and integration with the DoD Components.

f. Incorporates MASINT KSAs into DoD and Intelligence Community intelligence functional competencies, training, and certifications for MASINT.

g. Develops, assesses, and evaluates DoD MASINT training and certification programs to determine their effectiveness, efficiency, and compliance with established policy and training standards.

h. Reports annually to the USD(I&S) on the status of DoD MASINT training and certification for inclusion in the USD(I&S) Annual Report of Intelligence and Security Training, Education, and Certification in accordance with Reference (g).

3. USD(P&R). The USD(P&R):

a. In accordance with Reference (d), coordinates with the USD(I&S) on military training policies as they apply to MASINT training and certification.

b. Provides a representative to the DoD MASINT training and certification governance bodies established by DIA.

4. DoD COMPONENT HEADS AND COMMANDANT OF THE U.S. COAST GUARD (USCG). The DoD Component heads and the Commandant of the USCG:

a. Implement the policies and procedures in this instruction and, as appropriate, incorporate USD(I&S) and Director, DIA, MASINT training and certification guidance into their training and certification programs.

b. Maintain and forward to the Director, DIA, a list of all MASINT training and certifications under their responsibility.

c. Assist the Director, DIA, develop and maintain DoD MASINT training standards and MASINT certifications.

- d. Identify and exploit opportunities to conduct MASINT training and certification and share training, content, and training facilities with other DoD Components to the maximum extent possible, to achieve efficiencies and support implementation of training standards.
- e. Plan, program, and budget for MASINT training and certification using USD(I&S) and DIA guidance and recommendations, as appropriate.
- f. Submit Component-specific MASINT training requirements and limitations on training and certifications based on unique missions areas to the Director, DIA.
- g. Identify an office of primary responsibility for MASINT training and certification.
- h. Provide representatives to the DoD MASINT training and certification governance bodies identified by DIA. This requirement does **not** apply to the Office of the Inspector General of the Department of Defense.
- i. Review and analyze DoD Component-unique education and training curriculums, and share the MASINT training and certification best practices and lessons learned with the MASINT training advisory body and the other Components.
- j. Report annually to the Director, DIA, on the status of MASINT training and certification for inclusion in the USD(I&S) Annual Report of Intelligence and Security Training, Education, and Certification.



GLOSSARY

PART I. ABBREVIATIONS AND ACRONYMS

|          |  |
|----------|--|
| DIA      | Defense Intelligence Agency                              |
| DoDD     | DoD Directive  |
| DoDI     | DoD Instruction  |
| KSA      | knowledge, skills, and abilities                         |
| MASINT   | measurement and signature intelligence                   |
| USCG     | United States Coast Guard                                |
| USD(I&S) | Under Secretary of Defense for Intelligence and Security |
| USD(P&R) | Under Secretary of Defense for Personnel and Readiness   |

PART II. DEFINITIONS

Unless otherwise noted, these terms and their definitions are for the purpose of this instruction.

certification. Defined in Reference (d).

MASINT. Information produced by quantitative and qualitative analysis of physical attributes of targets and events to characterize, locate, and identify them. MASINT exploits a variety of phenomenologies to support signature development and analysis, to perform technical analysis, and to detect, characterize, locate, and identify targets and events. MASINT is derived from specialized, technically derived measurements of physical phenomenon intrinsic to an object or event, and it includes the use of quantitative signatures to interpret the data.

MASINT training. Training to support the acquisition, processing, exploitation, all-source analysis and dissemination of MASINT, and the certification of intelligence professionals performing those functions and tasks.