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Scope of Expertise in Forensic Document Examination

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Foreword

The history of this publication dates to the work of Alwyn Cole, Examiner of Questioned Documents at the Office of the Treasurer of the United States, which led to the 1969 adoption by the American Society of Questioned Document Examiners (ASQDE) of the *Definition and Scope of Work of the Examiner of Questioned Documents, Document Examiner, or Document Analyst*. Standards have since been derived from that document, ~~beginning in 1972 (ASTM E444)~~ with updates over the years, ~~which became~~ the 2013 Scientific Working Group for Forensic Document Examiners (SWGDOC) edition ~~that~~ was the basis for extensive peer review in 2015 and 2016 by the Forensic Document Examination subcommittee of the Organization for Scientific Area Committees (OSAC), resulting in a draft document that was submitted to the ASB - a Standards Developing Organization, which produced this standard using a consensus process.

All hyperlinks and web addresses shown in this document are current as the publication date of this standard

Keywords: *Forensic Document Examination, Forensic Document Examiner*

Abstract: Forensic document examination is a forensic discipline that addresses a complex and ever-expanding range of issues concerning documents. In addition to the varied materials that are considered to be documents, the methods used to generate documents continue to expand with technological advancements. Substantial skills and abilities are required to apply appropriate scientific and technical methodologies, followed by a knowledgeable and reliable basis for evaluation of the findings in order to ~~reach~~ render appropriate conclusions. Furthermore, this discipline requires a broad knowledge of document materials as well as production and generation methods; critical reasoning abilities; and written and verbal communication skills. This expertise is not limited to 'handwriting analysis;' rather, the scope of forensic document examination is far greater.

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Scope of Expertise in Forensic Document Examination

1 Scope

This standard describes the responsibilities of and general qualifications for forensic science practitioners engaged in the practice of forensic document examination.

This document provides guidance to anyone encountering matters involving forensic document examination.

2 Normative References

The following references are documents that are indispensable for the application of the standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

SWGDOC *Terminology Relating to the Examination of Questioned Documents*, 2013¹

SWGDOC *Standard for Minimum Training Requirements for Forensic Document Examiners*⁴, 2013¹

National Commission on Forensic Science. *Recommendation to the Attorney General National Code of Professional Responsibility for Forensic Science and Forensic Medicine Service Providers*. March 22, 2016²

3 Terms and Definitions

Terms and definitions for this standard shall be the same as the terms defined in SWGDOC *Terminology Relating to the Examination of Questioned Documents*, 2013.

3.1

Forensic Science Practitioner

An individual who (1) applies scientific or technical practices to the recognition, collection, analysis, or interpretation of evidence for criminal and civil law or regulatory issues, and (2) issues test results, provides reports, or provides interpretations, conclusions, or opinions through testimony with respect to such evidence³.

4 Requirements

4.1 Background

Forensic document examiners typically deal with inquiries that arise in matters where the authenticity, genuineness, or source of documents is questioned. The results of examinations conducted to answer such questions are reported for use by law enforcement agencies, the judiciary, administrative and executive officers, intelligence organizations, boards, tribunals, commissions, attorneys, and individuals. These results generally include a full explanation of the bases for the findings, opinions, or conclusions, and can be presented in the form of expert

¹ <http://swgdoc.org/index.php/standards/published-standards>.

² Available at <https://www.justice.gov/ncfs/file/839711/download>.

³ National Commission on Forensic Science. *Defining Forensic Science and Related Terms*, May 1, 2015. Available from <https://www.justice.gov/ncfs/file/786571/download>].

testimony. They are often illustrated through the use of demonstrative evidence charts or images that serve to illustrate and clarify the basis of the opinion.

Forensic document examination does not involve the employment practices or practice principles of the study of handwriting for personality assessment, or in an attempt to create a personality profile, or otherwise analyze or judge a writer's personality or character.

4.2 Responsibilities of a Forensic Document Examiner

4.2.1 General

The forensic document examiner conducts shall have the knowledge, skills, and abilities to conduct examinations of documents and other tasks to provide information and opinions regarding documents, including at a minimum:

- source(s) of handwriting writing;
- source(s) of machine-produced documents;
- source(s) of typewriting, impressions, and marks;
- associations of materials and devices used to produce documents;
- genuineness and authenticity of documents;
- detection and decipherment of alterations and, obliterations, and indented impressions, and;
- preservation and restoration of legibility to damaged or illegible documents.

4.2.2 Tasks Performed by Forensic Document Examiners

For examinations such as those in 4.2.1, the forensic document examiner can perform various tasks, including:

- the examination and comparison of writing, which includes both joined cursive and printed style writing, numerals and signs, as well as signatures, including electronically-captured writing and signatures;
- the examination, visualization, decipherment, and preservation of indentations on documents;
- the examination, comparison and classification of documents produced by typewriters, facsimile machines, photocopiers, computer printers, commercial printing and other mechanical or electronic imaging devices, and also the examination of the devices themselves as appropriate;
- the decipherment of machine ribbons and other intermediary media and their comparison to print outs and other output;
- ~~the comparison of paper fiber impressions to machine ribbons;~~

- the examination and comparison of ink, paper, and writing instruments;
- the collection and preservation of charred or liquid-soaked documents;
- the collection, restoration and preservation of torn, perforated, and/or cut (including shredded) documents;
- the decipherment or restoration of altered, obliterated, or erased areas of documents ~~and~~;
- the comparison of elements of a document (e.g., typewriting, printing, ~~watermarked~~ paper, watermarks, ink) with an appropriate standard reference collection to determine age, production history, or authenticity;
- the preparation of reports and associated illustrative material.

4.2.3 Extent of Examinations

A complete forensic examination of documents ~~involves~~shall involve the assessment of the elements of a document to ensure accurate findings, proper reasoning, and reliable conclusions.

Many analytical requests involving documents, such as the sequence of preparation, dating of documents, and counterfeit recognition, can require more than one type of document examination.

4.3 Equipment

4.3.1 General

Competency in forensic document examination includes the requisite knowledge of access to, skills, and proficiency/abilities in the use of, and access to, the equipment, tools, instrumentation, and reference materials used for examination.

The forensic document examiner shall ensure that all equipment and apparatus shall be properly maintained and calibrated, and is used with appropriate software. Examiners shall understand each technique's capabilities and limitations.

4.3.2 Standard Equipment

The following equipment, tools, instrumentation, and reference materials are required for forensic document examinations ~~in the most frequently encountered problems~~, and shall be accessible/available at all times.

- Light source(s) of sufficient intensity and appropriate type to allow fine detail to be distinguished. Light sources should include those appropriate for transmitted lighting, side lighting, and vertical incident lighting which have been found useful in a variety of situations. Natural, incandescent, fluorescent light, LED sources, and/or fiber optic lighting systems are generally utilized.
- Magnification sufficient to allow fine detail to be distinguished. In addition to low power hand lenses, a stereomicroscope with a range of magnification has been found useful in a variety of situations.

- Photographic or other imaging equipment for recording observations, including: image capture device(s) capable of sufficient resolution to reliably record the desired detail; image output device(s) (for display or hardcopy production) capable of sufficient resolution and color balance for the intended purpose(s), and; media and appropriate systems for intermediate storage and archiving of images.
- Appropriate ruler(s) ~~and micrometer(s) or paper thickness gauges~~, grid(s), and other measurement device(s) in SI (metric) or IP (inch-pound) units, or both.
- Long and short wave UV sources in the form of UV lamps or view box, with both long-wave UV and short-wave UV lamps.
- Colored filters (gelatin, colored glass, interference filters, dichroic filters) as needed for visual and photographic differentiation of inks.
- Infrared (IR) image conversion device or system with appropriate light sources and filters for use in reflected infrared (RIR) and infrared luminescent (IRL) examinations.
- Electrostatic detection device (EDD) ~~or other device~~ for the detection, or visualization, or both, of indentations and other features present in or on paper or similar substrata.

4.3.3 Special Equipment

Certain equipment, tools, instrumentation, and reference materials are required for less frequently encountered problems or advanced examinations. Where standard procedures exist for such examinations, the required equipment is generally specified: (e.g., Annex D lists the standard procedures developed by SWGDOC for a wide variety of case types.)

Other analytical instrumentation may be used where appropriate. ~~Examiners should understand each technique's capabilities and limitations.~~

4.4 Competence

4.4.1 General

~~Qualification~~ Competence as a forensic document examiner is based upon a combination of the requisite knowledge, skills, and abilities acquired through appropriate education, training, and experience specific to forensic document examination.

The study or practice of personality profiling or character assessment based on handwriting is not a foundation or a supplement, in whole or in part, for competence in the practice of forensic document examination.

4.4.2 Requisite Knowledge, Skills, and Abilities

Because of the diverse nature of forensic document examination, it is critical that the examiner has a broad knowledge base ~~that includes, including~~ the manufacturing processes of materials used in the production and preservation of documents, as well as the skills and abilities to analyze, compare, and evaluate case-related items.

4.4.3 Initial Training and Professional Development

The examiner's training shall conform to the requirements of SWGDOC *Standard for Minimum Training Requirements for Forensic Document Examiners*, 2013.

Short overview courses, literature reviews, or distance learning, in and of themselves, do not ~~qualify properly train or prepare~~ an individual ~~as a for competence in the practice of~~ forensic document ~~examiner~~.

examination. Other kinds of experience and training do not constitute expertise or training in whole or in part in forensic document examination (e.g., calligraphy, penmanship, personality profiling or character assessment based on handwriting, fraud investigation, law enforcement, loss prevention, banking, general criminalistics or other forensic disciplines, legal training, or laboratory management).

4.4.4 Continuing Professional Development

Continuing professional development is the mechanism through which a forensic document examiner remains current or advances to a higher level of expertise, specialization, or responsibility. It is important that continuing professional development be structured, measurable, and documented.

A forensic document examiner has an ongoing obligation to remain current in the discipline through continuing education, which encompasses competency maintenance, skill enhancement, and other learning activities that will maintain and broaden their knowledge, skills, and abilities in the discipline; it is the mechanism through which a forensic document examiner increases or updates knowledge, skills, or abilities, reinforces knowledge, or learns of the latest research, developments, or technology related to his or her profession.

4.5 Other Responsibilities as a Forensic Service Provider

The forensic document examiner shall perform ~~the following~~ other general responsibilities common to all forensic service providers or document the reason(s) for not performing the action:

- ~~maintain a~~ e.g., maintaining chain of custody for all items submitted;
- ~~maintain appropriate documentation of all the bases for findings, opinions, and conclusions;~~
- ~~maintain a record of any training received on specific equipment;~~
- ~~clearly report results~~ other requirements as set forth in an unbiased manner;
- ~~participate in appropriate training and competency testing;~~
- ~~preserve potentially relevant physical evidence present on a document(s) for examination by forensic examiners of other disciplines;~~

~~comply with the provisions of~~ *The National Code of Professional Responsibility for Forensic Science and Forensic Medicine Service Providers* ~~(included as Annex B~~ from the National Commission on

Forensic Sciences (included as Annex B) or The Code of Professional Responsibility for the Practice of Forensic Science from the U.S. Department of Justice (included as Annex C).

5 Conformance Requirements

5.1 Conformance

Conformance to this standard will be achieved if an implementation and its associated data records conform to normative (“shall”) Sections 4.3 through 4.4. Documentation to verify conformance with the above requirements shall be maintained by ~~the~~each laboratory ~~or~~and individual forensic document examiner and shall be made available to auditors upon judicially or administratively authorized request.

5.1.1 Conformance to *Equipment*

Conformance to 4.3 *Equipment* requires ~~demonstration of ongoing access to the standard~~that the forensic document examiner shall ensure that all equipment and ~~availability of access to apparatus is properly maintained and calibrated (4.3.1) and maintain the special equipment needed for documentation.~~ The forensic document examiner shall also demonstrate that the *Standard Equipment* (4.3.2) is always accessible and useable and that the *Special Equipment* (4.3.3) is accessible and useable upon demand for any examinations that the laboratory or individual forensic document examiner ~~may~~might agree to undertake.

5.1.2 Conformance to *Competence*

Conformance to 4.4 *Competence* requires the laboratory or individual forensic document examiner to maintain and supply evidence of technical competence (e.g., by maintaining appropriate records of completion of training records, to competence in areas specific to forensic document examination, including initial training, continuing education, and training on specific equipment; participating in inter-laboratory comparison_; individual proficiency testing_; and by demonstrating laboratory accreditation or individual certification by a recognized accreditation or certification body).

Annex A **(informative)**

Foundational Principles

Forensic document examination is a forensic discipline that addresses a complex and ever expanding range of issues concerning documents. Accordingly, it requires a broad range of knowledge, skills, and abilities to effectively apply appropriate scientific and technical methodologies and to properly evaluate the findings in order to reach appropriate conclusions. Guidance is provided for those encountering issues that potentially involve forensic document examination (e.g., law enforcement and other government agencies, attorneys, the judiciary, or private companies and individuals).

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Annex B (normative)

The National Code of Professional Responsibility for Forensic Science and Forensic Medicine Service Providers ⁴

The National Code of Professional Responsibility (“Code”) defines a framework for promoting integrity and respect for the scientific process among forensic science and forensic medicine service providers, both practitioners and agencies, including its managers, must meet requirements 1 through 15 enumerated below. Requirement 16 specifically refers to the responsibility of forensic science and forensic medicine management rather than individual practitioners.

1. Accurately represent relevant education, training, experience, and areas of expertise.
2. Be honest and truthful in all professional affairs including not representing the work of others as one’s own.
3. Foster and pursue professional competency through such activities as training, proficiency testing, certification, and presentation and publication of research findings.
4. Commit to continuous learning in relevant forensic disciplines and stay abreast of new findings, equipment, and techniques.
5. Utilize scientifically validated methods and new technologies, while guarding against the use of unproven methods in casework and the misapplication of generally-accepted standards.
6. Handle evidentiary materials to prevent tampering, adulteration, loss, or nonessential consumption of evidentiary materials.
7. Participation in any case in which there is a conflict of interest shall be avoided.
8. Conduct independent, impartial, and objective examinations that are fair, unbiased, and fit-for-purpose.
9. Make and retain contemporaneous, clear, complete, and accurate records of all examinations, tests, measurements, and conclusions, in sufficient detail to allow meaningful review and assessment by an independent professional proficient in the discipline.
10. Ensure interpretations, opinions, and conclusions are supported by sufficient data and minimize influences and biases for or against any party.
11. Render interpretations, opinions, or conclusions only when within the practitioner’s proficiency or expertise.

⁴ National Commission on Forensic Science. *Recommendation to the Attorney General National Code of Professional Responsibility for Forensic Science and Forensic Medicine Service Providers*. March 22, 2016, Available at <https://www.justice.gov/ncfs/file/839711/download>.

12. Prepare reports and testify using clear and straightforward terminology, clearly distinguishing data from interpretations, opinions, and conclusions and disclosing known limitations that are necessary to understand the significance of the findings.

13. Reports and other records shall not be altered and information shall not be withheld for strategic or tactical advantage.

14. Document and, if appropriate, inform management or quality assurance personnel of nonconformities* and breaches of law or professional standards.

15. Once a report is issued and the adjudicative process has commenced, communicate fully when requested with the parties through their investigators, attorneys, and experts, except when instructed that a legal privilege, protective order or law prevents disclosure.

16. Appropriately inform affected recipients (either directly or through proper management channels) of all nonconformities or breaches of law or professional standards that adversely affect a previously issued report or testimony and make reasonable efforts to inform all relevant stakeholders, including affected professional and legal parties, victim(s) and defendant(s).

* Nonconformities are any aspect of laboratory work that does not conform to its established procedures. An evaluation of the nonconformity risk is appropriate to deciding whether or not reporting is necessary.

Annex C
(normative)

Department of Justice Code of Professional Responsibility
for the Practice of Forensic Science⁵

The following Code of Professional Responsibility for the Practice of Forensic Science (Code) defines a framework for promoting integrity and respect for the scientific process.¹ Forensic science providers, both practitioners and agencies, including its managers, must meet requirements 1-15 enumerated below. Requirement 16 specifically refers to the responsibility of forensic science management rather than individual practitioners.

1. Accurately represent relevant education, training, experience, and areas of expertise.
2. Be honest and truthful in all professional affairs including not representing the work of others as one's own.
3. Foster and pursue professional competency through such activities as training, proficiency testing, certification, and presentation and publication of research findings.
4. Commit to continuous learning in relevant forensic disciplines and stay abreast of new findings, equipment, and techniques.
5. Conduct research and forensic casework using the scientific method or agency best practices. Where validation tools are not known to exist or cannot be obtained, conduct internal or inter-laboratory validation tests in accordance with the quality management system in place.
6. Handle evidentiary materials to prevent tampering, adulteration, loss, or nonessential consumption of evidentiary materials.
7. Avoid participation in any case in which there is a conflict of interest.
8. Conduct examinations that are fair, unbiased, and fit-for-purpose.
9. Make and retain contemporaneous, clear, complete, and accurate records of all examinations, tests, measurements, and conclusions, in sufficient detail to allow meaningful review and assessment by an independent professional proficient in the discipline.
10. Ensure interpretations, opinions, and conclusions are supported by sufficient data and minimize influences and biases for or against any party.
11. Render interpretations, opinions, or conclusions only when within the practitioner's proficiency or expertise.

⁵ https://www.justice.gov/sites/default/files/code_of_professional_responsibility_for-the_practice_of_forensic_science_08242016.pdf

12. Prepare reports and testify using clear and straightforward terminology, clearly distinguishing data from interpretations, opinions, and conclusions. Reports should disclose known limitations that are necessary to understand the significance of the findings.

13. Do not alter reports and other records or withhold information for strategic or tactical advantage.

14. Document and, if appropriate, inform management or quality assurance personnel of nonconformities² and breaches of law or professional standards.

15. Honestly communicate with all parties (the investigator, prosecutor, defense, and other expert witnesses) about all information relating to their analyses, when communications are permitted by law and agency practice.³

16. Inform the prosecutors involved through proper laboratory management channels of material nonconformities or breaches of law or professional standards that adversely affect a previously issued report or testimony.⁴

¹ These provisions are not intended to, and do not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.

² Nonconformities are any aspect of laboratory work that does not conform to its established procedures. An evaluation of the nonconformity risk is appropriate to deciding whether or not reporting is necessary.

³ Agency practice may vary depending on the status of the case or due to safety concerns.

⁴ Prosecutors have independent reporting requirements based on codes of professional responsibility and ethics.

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SWGDOC documents can be downloaded from:

<https://www.nist.gov/topics/forensic-science/forensic-document-examination-subcommittee>

<http://www.swgdoc.org/index.php/standards/published-standards>

SWGDOC Standard for Scope of Work of Forensic Document Examiners, [2013](#)

SWGDOC Standard for Test Methods for Forensic Writing Ink Comparison, [2013](#)

SWGDOC Standard Terminology for Expressing Conclusions of Forensic Document Examiners, [2013](#)

SWGDOC Standard for Writing Ink Identification, [2013](#)

SWGDOC Terminology Relating to the Examination of Questioned Documents, [2013](#)

SWGDOC Standard for Examination of Mechanical Checkwriter Impressions, [2013](#)

SWGDOC Standard for Examination of Dry Seal Impressions, [2013](#)

SWGDOC Standard for Examination of Fracture Patterns and Paper Fiber Impressions on Single-Strike Film Ribbons and Typed Text, [2013](#)

SWGDOC Standard for Physical Match of Paper Cuts, Tears, and Perforations in Forensic Document Examinations, [2013](#)

SWGDOC Standard for Examination of Rubber Stamp Impressions, [2013](#)

SWGDOC Standard for Examination of Handwritten Items, [2013](#)

SWGDOC Standard for Indentation Examinations, [2013](#)

SWGDOC Standard for Non-destructive Examination of Paper, [2013](#)

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SWGDOC Standard for Examination of Documents Produced with Liquid Ink Jet Technology, [2013](#)

SWGDOC Standard for Examination of Documents Produced with Toner Technology, [2013](#)

SWGDOC Standard for Examination of Typewritten Items, [2013](#)

SWGDOC Standard for Preservation of Charred Documents, [2013](#)

SWGDOC Standard for Preservation of Liquid Soaked Documents, [2013](#)

SWGDOC Standard for Use of Image Capture and Storage Technology in Forensic Document Examination

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