



## Purpose

The purpose of this spreadsheet is to help give crime laboratories and other interested organizations a better idea of the documents available for implementation on the OSAC Registry and where other OSAC documents are in the development and implementation process.

## Key

**Tier 1** - Document on the OSAC Registry; approved by OSAC with highest level of vetting

**Tier 2** - OSAC supported document published by an SDO; completed SDO consensus process

**Tier 3** - OSAC draft document sent to an SDO for development; drafted with input from Resource Committees and approved by SAC

**Tier 4** - Working draft document inside OSAC development process and not yet publicly available

\* = Currently in OSAC Registry Approval Process

| Subcommittee                             | Standard   | Effective Date |
|--|--|----------------|
| Disaster Victim Identification           | ASB Best Practice Recommendation 007, Postmortem Impression Submission Strategy for Comprehensive Searches of Essential Automated Fingerprint Identification System Databases                  | 9/5/2019       |
| Disaster Victim Identification           | ASB Best Practice Recommendation 010, Forensic Anthropology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority                                     | 9/5/2019       |
| Dogs & Sensors                           | ASB 025, Crime Scene/Death Investigation - Dogs and Sensors - Terms and Definitions, First Edition, 2017   | 10/1/2019      |
| Facial Identification                    | ASTM E3149-18 Standard Guide for Facial Image Comparison Feature List for Morphological Analysis   | 2/14/2019      |
| Facial Identification                    | ASTM E3155-17 Standard Guide for Capturing Facial Images for Use with Facial Recognition Systems   | 10/1/2019      |
| Facial Identification                    | ASTM E3148-18 Standard Guide for Postmortem Facial Image Capture   | 10/1/2019      |
| Fire and Explosion Investigation         | NFPA 921:2017 Guide for Fire and Explosion Investigation   | 11/1/2017      |
| Fire and Explosion Investigation         | NFPA 1033:2014 Standard for Professional Qualifications for Fire Investigators   | 12/22/2016     |
| Materials (Trace)                        | ASTM E1610-18 Standard Guide for Forensic Paint Analysis and Comparison  | 6/26/2018      |
| Materials (Trace)                        | ASTM E2926-17 Standard Test Method for Forensic Comparison of Glass Using Micro X-ray Fluorescence Spectrometry  | 7/31/2017      |
| Materials (Trace)                        | ASTM E2927-16e1 Standard Test Method for Determination of Trace Elements in Soda-Lime Glass Samples Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry for Forensic Comparisons | 6/5/2018       |
| Materials (Trace)                        | ASTM E2937-18 Standard Guide for Using Infrared Spectroscopy in Forensic Paint Examinations  | 6/26/2018      |
| Materials (Trace)                        | ASTM E3085-17 Standard Guide for Fourier Transform Infrared Spectroscopy in Forensic Tape Examinations   | 9/11/2018      |
| Odontology                               | ANSI/ADA 1058-2010D Forensic Dental Data Set   | 2/14/2019      |
| Odontology                               | ADA 1088-2017D Human Identification by Comparative Dental Analysis   | 3/7/2019       |
| Seized Drugs                             | ASTM E2329-17 Standard Practice for Identification of Seized Drugs   | 8/7/2018       |
| Seized Drugs                             | ASTM E2548-11e1 Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis   | 4/3/2017       |
| Toxicology                               | ASB 017, Standard Practices for Measurement Traceability in Forensic Toxicology, First Edition, 2018   | 6/18/2019      |
| Toxicology                               | ASB 037, Guidelines for Opinions and Testimony in Forensic Toxicology, First Edition, 2019   | 11/5/2019      |
| Interdisciplinary (Virtual Subcommittee) | ANSI/NIST ITL-1:2011 (Update 2013) Data Format for the Interchange of Fingerprint, Facial and Other Biometric Information  | 7/13/2017      |
| Interdisciplinary (Virtual Subcommittee) | ISO/IEC 17020:2012 Conformity Assessment - Requirements for the Operation of Various Types of Bodies Performing Inspection   | 4/18/2017      |
| Interdisciplinary (Virtual Subcommittee) | ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories   | 9/27/2016      |
| Interdisciplinary (Virtual Subcommittee) | ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories   | 6/18/2019      |
| Interdisciplinary (Virtual Subcommittee) | ASTM E2917-19a Standard Practice for Forensic Science Practitioner Training, Continuing Education, and Professional Development Programs   | 11/5/2019      |

## OSAC Standards Activities: Tier 1-3

| Subcommittee                         | Status                     | Document Title   |
|--------------------------------------|----------------------------|--|
| Anthropology                         | TIER 2 - published by SDO  | ASB 045, Standard for Stature Estimation in Forensic Anthropology, First Edition, 2019   |
| Anthropology                         | TIER 3 - at SDO            | ASB 089, Facial Approximation in Forensic Anthropology   |
| Anthropology                         | TIER 3 - at SDO            | ASB 090, Standard for Sex Estimation in Forensic Anthropology  |
| Anthropology                         | TIER 3 - at SDO            | (ASB) Standard for Stature Estimation from Human Remains   |
| Anthropology                         | TIER 3 - at SDO            | ASB 132, Standard for Ancestry Estimation in Forensic Anthropology   |
| Anthropology                         | TIER 3 - at SDO            | ASB 133, Standar for Age Estimation in Forensic Anthropology   |
| Anthropology                         | TIER 3 - at SDO            | ASB 135, Best Practice Recommendations for Anthropology Scene Detection and Processing   |
| Bio. Data Interpretation & Reporting | TIER 3 - at SDO            | ASB 018, Validation Standards for Probabilistic Genotyping Systems   |
| Bio. Data Interpretation & Reporting | TIER 2 - published by SDO* | ASB 020, Standards for Validation Studies of DNA Mixtures, and Development and Verification of a Laboratory's Mixture Interpretation Protocol, First Edition, 2018 |
| Bio. Data Interpretation & Reporting | TIER 2 - published by SDO  | ASB 040, Standard for Forensic DNA Interpretation and Comparison Protocols   |
| Bio. Data Interpretation & Reporting | TIER 3 - at SDO            | ASB 041, Assigning Propositions for Likelihood Ratios in Forensic DNA Interpretations  |
| Bio. Data Interpretation & Reporting | TIER 3 - at SDO            | ASB 114, Best Practice Recommendation for Validation of Forensic DNA Software  |
| Bio. Data Interpretation & Reporting | TIER 3 - at SDO            | ASB 123, Standard for Internal Evaluation of a Laboratory's DNA Mixture Interpretation Protocol  |
| Biological Methods                   | TIER 2 - published by SDO  | ASB 022, Standard for Forensic DNA Analysis Training Programs  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 023, Standard for Training of Forensic DNA Isolation and Purification Methods  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 038, Standard for Internal Validation of Forensic DNA Analysis Methods   |
| Biological Methods                   | TIER 3 - at SDO            | ASB 039, Standard for Internal Validation of Human STR Profiling on CE Platforms   |
| Biological Methods                   | TIER 3 - at SDO            | ASB 077, Standard for the Developmental and Internal Validation of Forensic Serological Methods  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 110, Standard for Training in Forensic Serological Methods   |
| Biological Methods                   | TIER 3 - at SDO            | ASB 115, Standard for Training of Forensic STR Typing Methods Using PCR Amplification, DNA Separation, & Allele Detection  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 116, Standard for Training of Forensic DNA Quantification Methods  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 130, Standard for Training in Forensic DNA Amplification Methods for Capillary Electrophoresis Sequencing  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 131, Standard for Training in Forensic DNA Sequencing using Capillary Electrophoresis  |
| Biological Methods                   | TIER 3 - at SDO            | ASB 136, Forensic Laboratory Standards for Prevention, Monitoring, and Mitigation of DNA Contamination   |
| Biological Methods                   | TIER 3 - at SDO            | ASB NWP20, Standards for the Analytical Procedures and Report Writing of Forensic Serological Methods  |
| Biological Methods                   | TIER 3 - at SDO            | ASB NWP24, Best Practice Recommendations for Internal Validation of Human STR Profiling on CE Platforms (complements ASB 039)                                      |
| Bloodstain Pattern Analysis          | TIER 3 - at SDO            | ASB 030, Standard for a Quality Assurance Program in Bloodstain Pattern Analysis   |
| Bloodstain Pattern Analysis          | TIER 3 - at SDO            | ASB 031, Guidelines for Report Writing in Bloodstain Pattern Analysis, First Edition   |
| Bloodstain Pattern Analysis          | TIER 3 - at SDO            | ASB 032, Standards for Minimum Training and Education Requirements for Bloodstain Pattern Analysts   |
| Bloodstain Pattern Analysis          | TIER 2 - published by SDO  | ASB 033, Terms and Definitions in Bloodstain Pattern Analysis, First Edition, 2017   |
| Bloodstain Pattern Analysis          | TIER 2 - published by SDO  | ASB 072, Standard for the Validation of Procedures in Bloodstain Pattern Analysis, First Edition, 2019   |
| Crime Scene Investigation            | TIER 2 - published by SDO* | ASTM E620-11(18) Standard Practice for Reporting Opinions of Scientific or Technical Experts   |
| Crime Scene Investigation            | TIER 2 - published by SDO* | ASTM E678-07(13) Standard Practice for Evaluation of Scientific or Technical Data  |
| Crime Scene Investigation            | TIER 2 - published by SDO* | ASTM E860-07(13)e2 Standard Practice for Examining and Preparing Items that are or may Become Involved in Criminal or Civil Litigation                             |
| Crime Scene Investigation            | TIER 2 - published by SDO* | ASTM E1020-13e1 Standard Practice for Reporting Incidents that may Involve Criminal or Civil Litigation (currently under revision as WK66161)                      |
| Crime Scene Investigation            | TIER 2 - published by SDO* | ASTM E1188-11(17) Standard Practice for Collection and Preservation of Information and Physical Items by a Technical Investigator                                  |
| Crime Scene Investigation            | TIER 2 - published by SDO* | ASTM E1459-13(18) Standard Guide for Physical Evidence Labeling and Related Documentation  |
| Crime Scene Investigation            | TIER 3 - at SDO            | ASTM E1843-16 Standard Guide for Sexual Assault Investigation, Examination, and Evidence (revision to existing ASTM document)                                      |
| Crime Scene Investigation            | TIER 3 - at SDO            | ASTM E2123-16 Transmittal of Evidence in Sexual Assault Investigation (revision to existing ASTM document)   |
| Crime Scene Investigation            | TIER 3 - at SDO            | ASTM E2124-15 Specification for Equipment and Supplies in Sexual Assault Investigation (revision to existing ASTM document)  |
| Crime Scene Investigation            | TIER 3 - at SDO            | ASTM WK67866 Standard Practice for Crime Scene Investigator Training, Continuing Education, Professional Development, Certification, and Accreditation             |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E3016-18 Standard Guide for Establishing Confidence in Digital and Multimedia Forensic Results by Error Mitigation Analysis                                   |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E2916-19e1 Standard Terminology for Digital and Multimedia Evidence Examination   |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E3017-15 Standard Practice for Examining Magnetic Card Readers  |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E3150-18 Standard Guide for Forensic Audio Laboratory Setup and Maintenance   |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E2916 Standard Terminology for Digital and Multimedia Evidence Examination  |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E3046-15 Standard Guide for Core Competencies for Mobile Phone Forensics  |
| Digital Evidence                     | TIER 2 - published by SDO  | ASTM E2678-09(2014) Standard Guide for Education and Training in Computer Forensics  |
| Digital Evidence                     | TIER 3 - at SDO            | ASTM WK63926 Standard Guide for Repair and Recovery of Damaged Audio Media   |
| Digital Evidence                     | TIER 3 - at SDO            | ASTM WK66298 Forensic Audio Examination Workflow   |
| Digital Evidence                     | TIER 3 - at SDO            | ASTM WK67924 Core Competencies for Forensic Audio  |

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| Disaster Victim Identification | TIER 1 - on OSAC Registry | ASB 007, Postmortem Impression Submission Strategy for Comprehensive Searches of Essential Automated Fingerprint Identification System Databases, First Edition, 2018                            |
| Disaster Victim Identification | TIER 1 - on OSAC Registry | ASB 010, Forensic Anthropology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority, First Edition, 2018   |
| Disaster Victim Identification | TIER 2 - published by SDO | ASB 006, Best Practice Recommendations for DNA Analysis for Human Identification in Mass Fatality Incidents, First Edition, 2019   |
| Disaster Victim Identification | TIER 2 - published by SDO | ASB 009, Best Practice Recommendations for the Examination of Human Remains by Forensic Pathologists in the Disaster Victim Identification Context, First Edition, 2019                          |
| Disaster Victim Identification | TIER 3 - at SDO           | ASB 005, Mass Fatality Incident Data Management: Best Practice Recommendations for the Medicolegal Authority   |
| Disaster Victim Identification | TIER 3 - at SDO           | ASB 008, Mass Fatality Scene Processing: Best Practice Recommendations for the Medicolegal Authority   |
| Disaster Victim Identification | TIER 3 - at SDO           | Postmortem Fingerprint Recovery: Guidance and Best Practices for Disaster Victim Identification  |
| Disaster Victim Identification | TIER 3 - at SDO           | ASB 108, Forensic Odontology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority  |
| Dogs & Sensors                 | TIER 1 - on OSAC Registry | ASB 025, Crime Scene/Death Investigation – Dogs and Sensors – Terms and Definitions, First Edition, 2017   |
| Dogs & Sensors                 | TIER 3 - at SDO           | ASB 027, Crime Scene/Death Investigation Dogs and Sensors - Patrol Dogs: Tracking/Trailing/Area Search/Building Search/Evidence Search of One or More Persons Based on Last Known Position       |
| Dogs & Sensors                 | TIER 3 - at SDO           | ASB 084, Presentation of Canine Detection Evidence in Court  |
| Dogs & Sensors                 | TIER 3 - at SDO           | ASB 088, General Guidelines for Training, Certification, and Documentation of Canine Detection Disciplines   |
| Facial Identification          | TIER 1 - on OSAC Registry | ASTM E3149-18 Standard Guide for Facial Image Comparison Feature List for Morphological Analysis   |
| Facial Identification          | TIER 1 - on OSAC Registry | ASTM E3115-17 Standard Guide for Capturing Images for Use with Facial Recognition Systems  |
| Facial Identification          | TIER 1 - on OSAC Registry | ASTM E3148-18 Standard Guide for Postmortem Facial Image Capture   |
| Facial Identification          | TIER 2 - published by SDO | ASTM E3149-18 Facial Image Comparison Feature List for Morphological Analysis  |
| Facial Identification          | TIER 3 - at SDO           | ASTM WK69795 Guide for Role Based Training in Facial Comparison  |
| Fire Debris & Explosives       | TIER 2 - published by SDO | ASTM E1412-16 Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Active Charcoal (see WK51929 for proposed revision) |
| Fire Debris & Explosives       | TIER 2 - published by SDO | ASTM E1413-19 Separation of Ignitable Liquid Residues from Fire Debris Samples by Dynamic Headspace Concentration onto an Adsorbant Tube   |
| Fire Debris & Explosives       | TIER 2 - published by SDO | ASTM E3189-19 Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Static Headspace Concentration onto an Adsorbent Tube   |
| Fire Debris & Explosives       | TIER 3 - at SDO           | ASTM WK56043 Terminology (related to fire debris)  |
| Fire Debris & Explosives       | TIER 3 - at SDO           | ASTM WK56998 Terminology (relating to the examination of explosives)   |
| Fire Debris & Explosives       | TIER 3 - at SDO           | ASTM WK64631 Standard Guide for a Systematic Approach to the Analysis of Ignitable Liquids   |
| Fire Debris & Explosives       | TIER 3 - at SDO           | ASTM WK67862 Standard Practice for the Forensic Examination and Identification of Intact Explosives  |
| Fire & Explosion Investigation | TIER 1 - on OSAC Registry | NFPA 921:2017 Guide for Fire and Explosion Investigation   |
| Fire & Explosion Investigation | TIER 1 - on OSAC Registry | NFPA 1033:2014 Standard for Professional Qualifications for Fire Investigators   |
| Fire & Explosion Investigation | TIER 3 - at SDO           | Standard for the Organization and Operation of Fire Investigation Units  |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 060, Guidelines for Barrel and Overall Length Measurements for Firearms  |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 061, Firearms and Toolmarks 3D Measurement Systems and Measurement Quality Control   |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 062, Standard for Topography Comparison Software for Firearm and Toolmark Analysis   |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 063, Implementation of 3D Technologies in Forensic Firearm and Toolmark Comparison Laboratories  |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 068, Safe Handling of Firearms and Ammunition during Forensic Analysis   |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 093, Test Method for the Examination and Testing of Firearms   |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 096, Standard Method for the Examination and Documentation of Ammunition and Ammunition Components   |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 100, Range of Conclusions and Criteria in Toolmark Examinations  |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 105, Minimum Education Requirements for Firearm and Toolmark Examiner Trainees (new standard)  |
| Firearms & Toolmarks           | TIER 3 - at SDO           | ASB 124, Minimum Requirements and Recommendations for a Firearm and Toolmark Examiner Training Program   |
| Footwear & Tire                | TIER 2 - published by SDO | ASB 021, Guideline for the Preparation of Test Impressions from Footwear and Tires   |
| Footwear & Tire                | TIER 2 - published by SDO | ASB 097, Terminology Used for Forensic Footwear and Tire Evidence  |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 049, Best Practice Recommendation for the Lifting of Footwear and Tire Impression Evidence   |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 050, Best Practice Recommendation for the Documentation and Photography Documentation of Footwear and Tire Evidence  |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 051, Scope of work for a Footwear and Tire Examiner Technical Report   |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 052, Best Practice Recommendation for the Detection of Footwear and Tire Impression Evidence   |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 095, Standard for Minimum Qualifications and Training for a Footwear/Tire Forensic Science Service Provider  |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 099, Standard for Footwear/Tire Examination Proficiency Testing Program  |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 126, Best Practice Recommendation for Casting of Footwear and Tire Impression Evidence   |
| Footwear & Tire                | TIER 3 - at SDO           | ASB 137, Standard for Examination and Documentation of Footwear and Tire Impression Evidence   |
| Forensic Document Examination  | TIER 3 - at SDO           | ASB 011, Scope of Expertise in Forensic Document Examination   |
| Forensic Document Examination  | TIER 3 - at SDO           | ASB 035, Standard for the Examination of Documents for Alterations   |
| Forensic Document Examination  | TIER 3 - at SDO           | ASB 044, Standard for Examination of Documents for Indentations  |
| Forensic Document Examination  | TIER 3 - at SDO           | ASB 071, Forensic Document Examination Terms and Reference   |
| Forensic Document Examination  | TIER 3 - at SDO           | ASB 117, Examination of Stamping Devices and Stamp Impressions   |

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| Friction Ridge                      | TIER 3 - at SDO            | ASB 012, Best Practice Recommendation for Articulating a Source Identification in Friction Ridge Examinations  |
| Friction Ridge                      | TIER 3 - at SDO            | ASB 013, Standard for Friction Ridge Examination Conclusions   |
| Friction Ridge                      | TIER 3 - at SDO            | ASB 014, Standard for Friction Ridge Examination Training Program  |
| Geological Materials                | TIER 3 - at SDO            | ASTM WK70035 Practice for Determination and Comparison of Color by Visual Observation in Forensic Soil Examination   |
| Geological Materials                | TIER 3 - at SDO            | ASTM WK70187 Standard Guide for the Collection of Soils and Other Geological Evidence for Forensic Applications  |
| Gunshot Residue                     | TIER 3 - at SDO            | ASTM E1588-17 Standard Guide for Gunshot Residue Analysis by Scanning Electron Microscopy/Energy Dispersive X-Ray Spectrometry   |
| Gunshot Residue                     | TIER 3 - at SDO            | ASTM WK58457 Training in the Forensic Examination of GSR using Scanning Electron Microscopy-Energy Dispersive X-ray Spectrometry   |
| Materials (Trace)                   | TIER 1 - on OSAC Registry  | ASTM E1610-18 Standard Guide for Forensic Paint Analysis and Comparison  |
| Materials (Trace)                   | TIER 1 - on OSAC Registry  | ASTM E2926-17 Standard Test Method for Forensic Comparison of Glass Using Micro X-ray Fluorescence Spectrometry  |
| Materials (Trace)                   | TIER 1 - on OSAC Registry  | ASTM E2927-16e1 Standard Test Method for Determination of Trace Elements in Soda-Lime Glass Samples Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry for Forensic Comparisons |
| Materials (Trace)                   | TIER 1 - on OSAC Registry  | ASTM E2937-18 Standard Guide for Using Infrared Spectroscopy in Forensic Paint Examinations  |
| Materials (Trace)                   | TIER 1 - on OSAC Registry  | ASTM E3085-17 Standard Guide for Fourier Transform Infrared Spectroscopy in Forensic Tape Examinations   |
| Materials (Trace)                   | TIER 2 - published by SDO* | ASTM E2224-19 Standard Guide for Forensic Analysis of Fibers by Infrared Spectroscopy  |
| Materials (Trace)                   | TIER 2 - published by SDO* | ASTM E2228-19 Standard Guide for Microscopical Examination of Textile Fibers   |
| Materials (Trace)                   | TIER 2 - published by SDO* | ASTM E1967 Standard Test Method for the Automated Determination of Refractive Index of Glass Samples Using the Oil Immersion Method and a Phase Contrast Microscope                            |
| Materials (Trace)                   | TIER 2 - published by SDO* | ASTM E2330 Standard Test Method for Determination of Concentrations of Elements in Glass Samples Using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for Forensic Comparisons          |
| Materials (Trace)                   | TIER 3 - at SDO            | ASTM E2808 Standard Guide for Microspectrophotometry in Forensic Paint Analysis  |
| Materials (Trace)                   | TIER 3 - at SDO            | ASTM WK56743 Standard Practice for a Forensic Hair Analysis Training Program   |
| Materials (Trace)                   | TIER 3 - at SDO            | ASTM WK64632 Standard Practice for a Forensic Paint Analysis Training Program  |
| Materials (Trace)                   | TIER 3 - at SDO            | ASTM WK64633 Standard Practice for a Forensic Tape Analysis Training Program   |
| Materials (Trace)                   | TIER 3 - at SDO            | (ASTM) Standard Guide for Forensic Human Hair Analysis and Comparison  |
| Materials (Trace)                   | TIER 3 - at SDO            | ASTM E2225 Standard Guide for Forensic Examination of Fabrics and Cordage  |
| Medicolegal Death Investigation     | TIER 3 - at SDO            | ASB 125, Organizational and Foundational Standard for Medicolegal Death Investigation  |
| Odontology                          | TIER 1 - on OSAC Registry  | ANSI/ADA 1058-2010D Forensic Dental Data Set   |
| Odontology                          | TIER 1 - on OSAC Registry  | ADA 1088-2017D Human Identification by Comparative Dental Analysis   |
| Odontology                          | TIER 3 - at SDO            | ADA 1077-201x Human Age Assessment by Dental Analysis  |
| Odontology                          | TIER 3 - at SDO            | ISO 20888 Dentistry - Terminology for Forensic Oro-Dental Data   |
| Seized Drugs                        | TIER 1 - on OSAC Registry  | ASTM E2329-17 Standard Practice for Identification of Seized Drugs   |
| Seized Drugs                        | TIER 1 - on OSAC Registry  | ASTM E2548-11e1 Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis   |
| Seized Drugs                        | TIER 3 - at SDO            | ASTM E2764 Standard Practice for Uncertainty Assessment in the Context of Seized-Drug Analysis   |
| Seized Drugs                        | TIER 3 - at SDO            | ASTM WK65067 Practice for Assessment of Gas Chromatography and Electron Ionization Mass Spectrometry Data During the Qualitative Analysis of Seized Drugs                                      |
| Seized Drugs                        | TIER 3 - at SDO            | ASTM E2326-14 Standard Practice for Education and Training in Seized Drugs (revision to existing standard)   |
| Speaker Recognition                 | TIER 3 - at SDO            | Acoustical Society of America (ASA) Speech Collection Guideline for Speaker Recognition: Audio Collection at a Temporary Location  |
| Speaker Recognition                 | TIER 3 - at SDO            | ANSI/NIST-ITL Guidelines for The Exchange of Speech Files for Use in Speaker Recognition Using ANSI/NIST-ITL Transactions  |
| Toxicology                          | TIER 1 - on OSAC Registry  | ASB 017, Standard Practices for Measurement Traceability in Forensic Toxicology, First Edition, 2018   |
| Toxicology                          | TIER 1 - on OSAC Registry  | ASB 037, Guidelines for Opinions and Testimony in Forensic Toxicology, First Edition, 2019   |
| Toxicology                          | TIER 2 - published by SDO  | ASB 036, Standard Practices for Method Validation in Forensic Toxicology   |
| Toxicology                          | TIER 3 - at SDO            | ASB 053, Standard for Report Content in Forensic Toxicology  |
| Toxicology                          | TIER 3 - at SDO            | ASB 054, Standard for a Quality Control Program in Forensic Toxicology Laboratories  |
| Toxicology                          | TIER 3 - at SDO            | ASB 055, Standard for Breath Alcohol Measuring Instrument Calibration  |
| Toxicology                          | TIER 3 - at SDO            | ASB 098, Standard for Mass Spectral Data Acceptance in Forensic Toxicology   |
| Toxicology                          | TIER 3 - at SDO            | ASB 113, Standard for Identification Criteria in Forensic Toxicology   |
| Toxicology                          | TIER 3 - at SDO            | ASB 119, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing in Medicolegal Death Investigations   |
| Toxicology                          | TIER 3 - at SDO            | ASB 120, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing in Impaired Driving Investigations  |
| Toxicology                          | TIER 3 - at SDO            | ASB 121, Standard for the Analytical Scope and Sensitivity of Forensic Toxicology Urine Testing in Drug-Facilitated Crime Investigations   |
| Video/Imaging Technology & Analysis | TIER 2 - published by SDO* | ASTM E2825-19 Standard Guide for Forensic Digital Image Processing   |
| Video/Imaging Technology & Analysis | TIER 3 - at SDO            | ASTM WK61709 Standard Practice for Data Retrieval from Digital CCTV System   |
| Video/Imaging Technology & Analysis | TIER 3 - at SDO            | ASTM WK66357 Guide for Standard Guide for Latent Print Evidence Imaging Resolution   |
| Video/Imaging Technology & Analysis | TIER 3 - at SDO            | ASTM WK66417 Guide for Training Guidelines for Video Analysis, Image Analysis and Photography  |
| Video/Imaging Technology & Analysis | TIER 3 - at SDO            | ASTM WK69872 Standard Guide for Crime Scene Photography  |
| Wildlife Forensics                  | TIER 2 - published by SDO  | ASB 019, Wildlife Forensics General Standards, First Edition, 2019   |
| Wildlife Forensics                  | TIER 2 - published by SDO  | ASB 028, Wildlife Forensics Morphology Standards, First Edition, 2019  |

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|--------------------|----------------------------|---|
| Wildlife Forensics | TIER 2 - published by SDO  | ASB 029, Report Writing in Wildlife Forensics, Morphology and Genetics, First Edition, 2019   |
| Wildlife Forensics | TIER 2 - published by SDO  | ASB 046 Wildlife Forensics Validation Standards—STR Analysis, First Edition, 2019   |
| Wildlife Forensics | TIER 2 - published by SDO  | ASB 047, Wildlife Forensics Validation Standard—Validating New Primers for Sequencing, First Edition, 2019                                |
| Wildlife Forensics | TIER 2 - published by SDO  | ASB 048 Wildlife Forensic DNA Standard Procedures, First Edition, 2019  |
| Wildlife Forensics | TIER 3 - at SDO            | ASB 106, Wildlife Forensic-Protein Serology Method for Taxonomic Identification   |
| Wildlife Forensics | TIER 3 - at SDO            | ASB 111, Standard for Training in Mitochondrial DNA (mtDNA) Analysis for Taxonomic Identification   |
| Wildlife Forensics | TIER 3 - at SDO            | ASB 138, Wildlife Forensics Methods - Collection of Known Samples from Live Animals   |
|                    |                            |   |
| Interdisciplinary  | TIER 1 - on OSAC Registry  | ANSI/NIST ITL-1:2011 Data Format for the Interchange of Fingerprint, Facial & Other Biometric Information                                 |
| Interdisciplinary  | TIER 1 - on OSAC Registry  | ISO/IEC 17020:2012 Conformity Assessment - Requirements for the Operation of Various Types of Bodies Performing Inspection                |
| Interdisciplinary  | TIER 1 - on OSAC Registry  | ISO/IEC 17025:2005 General Requirements for the Competency of Testing and Calibration Laboratories  |
| Interdisciplinary  | TIER 1 - on OSAC Registry  | ISO/IEC 17025:2017 General Requirements for the Competency of Testing and Calibration Laboratories  |
| Interdisciplinary  | TIER 1 - on OSAC Registry  | ASTM E2917-19a Standard Practice for Forensic Science Practitioner Training, Continuing Education, and Professional Development Programs  |
| Interdisciplinary  | TIER 3 - at SDO            | ASTM E1020-13e1 WK66161 Standard Practice for Reporting Incidents that May Involve Criminal or Civil Litigation (Virtual Subcommittee #6) |
| Interdisciplinary  | TIER 3 - at SDO            | ASTM E860-07(13)e2 Standard Practice for Examining And Preparing Items That Are Or May Become Involved In Criminal or Civil Litigation    |
| Interdisciplinary  | TIER 2 - published by SDO* | ISO 2104302 Forensic Sciences - Part 2: Recognition, recording, collecting, transport and storage of items                                |

## OSAC Standards Activities: Tier 4

| Subcommittee                         | Status                     | Document Title   |
|--------------------------------------|----------------------------|--|
| Anthropology                         | TIER 4 - under development | Standard for Identifying and Describing Pathological Conditions and Anomalies in Forensic Anthropology |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Training on Analysis of Forensic STR Data   |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Training in the Use of Statistics in Interpretation of Forensic DNA Evidence              |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Training on Testimony for Forensic Biology  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Training of Forensic Autosomal and Y-STR Data Interpretation                              |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Setting Analytical and Stochastic Thresholds  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for the Statistical Interpretation of Autosomal STRs  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for the Reporting of Contamination and Failed Controls  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standards for NGS/MPS and Rapid DNA (related to data analysis)   |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standards for NGS/MPS and Rapid DNA (related to interpretation)  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standards for NGS/MPS and Rapid DNA (related to statistical analysis)                                  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standards for NGS/MPS and Rapid DNA (related to report writing/review)                                 |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standards for NGS/MPS and Rapid DNA (related to CODIS)   |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standards for NGS/MPS and Rapid DNA (related to testimony)   |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | ASB 080, Standard for Training of Forensic DNA Reporting and Review                                    |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for the Use of Elimination Databases  |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Training of CODIS   |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Best Practices for DNA Testimony   |
| Bio. Data Interpretation & Reporting | TIER 4 - under development | Standard for Reporting DNA Conclusions   |
| Biological Methods                   | TIER 4 - under development | Standard for the Internal Validation of DNA Extraction Methods   |
| Biological Methods                   | TIER 4 - under development | Best Practice Recommendations for the Internal Validation of DNA Extraction Methods                    |
| Biological Methods                   | TIER 4 - under development | Standard for the Internal Validation of Human DNA Quantification                                       |
| Biological Methods                   | TIER 4 - under development | Best Practice Recommendations for the Internal Validation of Human DNA Quantification                  |
| Biological Methods                   | TIER 4 - under development | Standard for the Internal Validation of Automated Platforms  |
| Biological Methods                   | TIER 4 - under development | Best Practice Recommendations for the Internal Validation of Automated Platforms                       |
| Biological Methods                   | TIER 4 - under development | Document for Report Wording for Male Screening Results   |
| Biological Methods                   | TIER 4 - under development | Best Practice Recommendations for Reporting and Results of Serological Examinations                    |
| Biological Methods                   | TIER 4 - under development | Best Practice Recommendations for Efficient Sex Assault Kit Processing                                 |
| Biological Methods                   | TIER 4 - under development | Standard for Training in Forensic Human Mitochondrial DNA Interpretation                               |
| Biological Methods                   | TIER 4 - under development | Training Standards for Sequencing: Massively Parallel Sequencing/Next Generation Sequencing            |
| Biological Methods                   | TIER 4 - under development | Internal Validation Standard for Sequencing: Massively Parallel Sequencing/Next Generation Sequencing  |
| Biological Methods                   | TIER 4 - under development | Standard for Familial DNA Searching  |
| Biological Methods                   | TIER 4 - under development | Technical Report for a Sample Training Plan for Forensic DNA Laboratories                              |
| Bloodstain Pattern Analysis          | TIER 4 - under development | BPA process map  |
| Bloodstain Pattern Analysis          | TIER 4 - under development | Conclusion statements for bloodstain pattern identifications   |
| Bloodstain Pattern Analysis          | TIER 4 - under development | Conclusion statements for bloodstain pattern reconstructions   |
| Bloodstain Pattern Analysis          | TIER 4 - under development | Bloodstain pattern taxonomy for use in classification of bloodstain patterns                           |
| Bloodstain Pattern Analysis          | TIER 4 - under development | Guidelines for a bloodstain pattern certification program  |
| Bloodstain Pattern Analysis          | TIER 4 - under development | Guidelines for developing Standard Operating Procedures for bloodstain pattern analysis                |
| Bloodstain Pattern Analysis          | TIER 4 - under development | Guidelines for proficiency testing in bloodstain pattern analysis                                      |
| Crime Scene Investigation            | TIER 4 - under development | Standard Practice for Documenting and Processing of Shooting Scenes for Reconstruction                 |
| Crime Scene Investigation            | TIER 4 - under development | Standard Practice for the Collection and Preservation of Items That May Contain Biological Material    |

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| Crime Scene Investigation      | TIER 4 - under development | Standard Practice for the Collection and Preservation of Seized Drugs   |
| Crime Scene Investigation      | TIER 4 - under development | Standard Practice for Crime Scene Reconstruction  |
| Digital Evidence               | TIER 4 - under development | Digital Evidence Testimony Preparation  |
| Digital Evidence               | TIER 4 - under development | Quality Management System Framework   |
| Digital Evidence               | TIER 4 - under development | Digital Evidence Tool Testing   |
| Digital Evidence               | TIER 4 - under development | Forensic Report Writing (SWGDE)   |
| Digital Evidence               | TIER 4 - under development | Preservation of Evidence from Mobile Devices  |
| Disaster Victim Identification | TIER 4 - under development | Best Practice Recommendations for Building Resiliency for Disaster Victim Identification Responders (NWP)   |
| Disaster Victim Identification | TIER 4 - under development | Best Practice Recommendations for Quality Assurance in Disaster Victim Identification (NWP)   |
| Disaster Victim Identification | TIER 4 - under development | Best Practice Recommendations for Managing Disaster Victim Identification Response with Chemical, Biological, Nuclear, and Explosive Trauma (NWP) |
| Disaster Victim Identification | TIER 4 - under development | Best Practice Recommendations for Disaster Victim Accounting (NWP)  |
| Disaster Victim Identification | TIER 4 - under development | Best Practice Recommendations for Comparison of ID Methodologies in Disaster Victim Identification (NWP)  |
| Disaster Victim Identification | TIER 4 - under development | Best Practice Recommendations for Mass Fatality Management Preparedness (NWP)   |
| Disaster Victim Identification | TIER 4 - under development | Mass Fatality Incident Data Management: Best Practice Recommendations for the Medicolegal Authority   |
| Disaster Victim Identification | TIER 4 - under development | Media Communications: Best Practice Recommendations for Medicolegal Authorities in Disaster Victim Identification                                 |
| Disaster Victim Identification | TIER 4 - under development | Ethical Considerations in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority                             |
| Disaster Victim Identification | TIER 4 - under development | Legal Considerations in Disaster Victim Identification  |
| Disaster Victim Identification | TIER 4 - under development | Family Management Following a Mass Fatality Incident: Victim Information Center Best Practice Recommendations for Medicolegal Authorities         |
| Disaster Victim Identification | TIER 4 - under development | Disaster Victim Identification Process: Best Practice Recommendations for the Medicolegal Authority   |
| Disaster Victim Identification | TIER 4 - under development | Forensic Odontology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority                                |
| Dogs & Sensors                 | TIER 4 - under development | Agriculture Detection - Canine Training, Certification, and Document Management Standards   |
| Dogs & Sensors                 | TIER 4 - under development | Human Remains Canine Detection in Water   |
| Dogs & Sensors                 | TIER 4 - under development | Human Remains Canine Detection on Land  |
| Dogs & Sensors                 | TIER 4 - under development | Crime Scene/Death Investigation - Dogs and Sensors Article Search   |
| Dogs & Sensors                 | TIER 4 - under development | Contraband Canine Detection   |
| Dogs & Sensors                 | TIER 4 - under development | Detection Canine Selection, Kenneling and Healthcare  |
| Dogs & Sensors                 | TIER 4 - under development | Narcotic Canine Detection   |
| Dogs & Sensors                 | TIER 4 - under development | Pest and Insect Canine Detection  |
| Dogs & Sensors                 | TIER 4 - under development | Canine Detection of Explosives  |
| Dogs & Sensors                 | TIER 4 - under development | Canine Detection of Microbial Organisms   |
| Dogs & Sensors                 | TIER 4 - under development | Pre-scented location check  |
| Dogs & Sensors                 | TIER 4 - under development | Mantrailing Pre-Scented Canines: Aged Trail Search  |
| Dogs & Sensors                 | TIER 4 - under development | Standard for Disaster Live Human Detection Dogs Programs - Training, Certification, and Documentation   |
| Dogs & Sensors                 | TIER 4 - under development | Standard for Disaster Human Remains Detection Dogs Programs - Training, Certification, and Documentation  |
| Facial Identification          | TIER 4 - under development | Physical Stability of Facial Features of Adults   |
| Facial Identification          | TIER 4 - under development | Guide for Investigative Lead Report and Note Taking   |
| Facial Identification          | TIER 4 - under development | Guide for Forensic Face Comparison Report and Note Taking   |
| Facial Identification          | TIER 4 - under development | Guide for Facial Comparison Awareness Training of Assessors   |
| Facial Identification          | TIER 4 - under development | Guide for Facial Comparison Training of Reviewers   |
| Facial Identification          | TIER 4 - under development | Guide for Facial Comparison Training of Examiners   |
| Facial Identification          | TIER 4 - under development | Guidelines for Image Processing of Facial Images  |
| Facial Identification          | TIER 4 - under development | Impact of Printing Effects on Facial Image Comparison   |
| Facial Identification          | TIER 4 - under development | Guideline on the Effects of a Printed Image for Facial Image Comparison   |
| Facial Identification          | TIER 4 - under development | Image Factors to Consider in Facial Assessment  |



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| Facial Identification          | TIER 4 - under development | Overview of Facial Comparison Methods   |
| Facial Identification          | TIER 4 - under development | Scanning of Facial Images   |
| Facial Identification          | TIER 4 - under development | Conclusion Scale  |
|                                |                            |   |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Guide for the Forensic Examination and Identification of Post-Blast Explosives   |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Guide for the Analysis of Ignitable Liquids by Gas Chromatography Electron Ionization Mass Spectrometry  |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Practice for a Forensic Explosives Analysis Training Program   |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Practice for a Forensic Fire Debris Analysis Training Program  |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Practice for Reporting Results and Opinions of Explosive Analysis  |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Practice for Reporting Results and Opinions of Fire Debris Analysis  |
| Fire Debris & Explosives       | TIER 4 - under development | QA/QC for Fire Debris Laboratories  |
| Fire Debris & Explosives       | TIER 4 - under development | Standard Test Method for the Interpretation/Classification of Gas Chromatography Electron Ionization Mass Spectrometry Data for the Identification of Ignitable Liquids |
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| Fire & Explosion Investigation | TIER 4 - under development | Template Quality Manual for Fire Investigation Units to facilitate individual FIU's development of their own Quality Manual   |
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| Firearms & Toolmarks           | TIER 4 - under development | ASB 101, Supporting Documentation of Source Conclusions in Toolmark Examinations  |
| Firearms & Toolmarks           | TIER 4 - under development | ASB 102, Guidelines for Peer Review of Source Conclusions in Toolmark Examinations  |
| Firearms & Toolmarks           | TIER 4 - under development | ASB 103, Guidelines for Reporting of Source Conclusions in Toolmark Examinations  |
| Firearms & Toolmarks           | TIER 4 - under development | ASB 104, Standard for 3D Virtual Comparison Microscopy for Firearm and Toolmark Analysis  |
| Firearms & Toolmarks           | TIER 4 - under development | ASB 107, Best Practice Recommendation for Measuring Trigger Pull Measurements of a Firearm and Estimating its Uncertainty   |
|                                |                            |   |
| Footwear & Tire                | TIER 4 - under development | Best Practice Recommendation for the Chemical Processing of Footwear and Tire Impression Evidence   |
| Footwear & Tire                | TIER 4 - under development | Best Practice Recommendation for Examination and Documentation of Footwear and Tire Impression Evidence   |
| Footwear & Tire                | TIER 4 - under development | Articulation, Interpretation, and Conclusions in Footwear and Tire Report Writing and Testimony   |
|                                |                            |   |
| Forensic Document Examination  | TIER 4 - under development | Standard Guide for Minimum Training Requirements for Forensic Document Examiners  |
| Forensic Document Examination  | TIER 4 - under development | Standard for Source Conclusions   |
| Forensic Document Examination  | TIER 4 - under development | Forensic Document Examination Bibliography  |
| Forensic Document Examination  | TIER 4 - under development | Standard Collection for Known Writing   |
| Forensic Document Examination  | TIER 4 - under development | Standard for Initial Assessment of Questioned Document Evidence   |
| Forensic Document Examination  | TIER 4 - under development | Standard for the Examination of Writing Inks  |
| Forensic Document Examination  | TIER 4 - under development | Non-Destructive Examination of Paper  |
| Forensic Document Examination  | TIER 4 - under development | Examination of Documents Produced with Liquid Ink Jet Technology  |
| Forensic Document Examination  | TIER 4 - under development | Examination of Documents Produced with Toner Technology   |
| Forensic Document Examination  | TIER 4 - under development | Examination of Typewritten Items  |
| Forensic Document Examination  | TIER 4 - under development | Standard for the Examination of Dry Seals and Dry Seal Impressions  |
| Forensic Document Examination  | TIER 4 - under development | Examination of Financial, Identification, and Other Authorized Documents  |
| Forensic Document Examination  | TIER 4 - under development | Standard for the Examination of Charred Documents   |
| Forensic Document Examination  | TIER 4 - under development | Standard for the Examination of Liquid Soaked Documents   |
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| Friction Ridge                 | TIER 4 - under development | Standard for the Examination of Friction Ridge Evidence   |
| Friction Ridge                 | TIER 4 - under development | Terminology Related to Friction Ridge Examination   |
| Friction Ridge                 | TIER 4 - under development | Analysis of Friction Ridge Impressions  |
| Friction Ridge                 | TIER 4 - under development | Comparison and Evaluation of Friction Ridge Impressions   |
| Friction Ridge                 | TIER 4 - under development | Consultation  |
| Friction Ridge                 | TIER 4 - under development | Verification  |
| Friction Ridge                 | TIER 4 - under development | Technical Review  |
| Friction Ridge                 | TIER 4 - under development | Reporting Results   |

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| Friction Ridge                  | TIER 4 - under development | Conflict Resolution  |
| Friction Ridge                  | TIER 4 - under development | ACE-V Process Map  |
| Friction Ridge                  | TIER 4 - under development | AFIS Best Practices  |
|                                 |                            |  |
| Geological Materials            | TIER 4 - under development | Standard Guide for the Analysis of Soils and Other Geological Evidence for Criminal Forensic Applications  |
| Geological Materials            | TIER 4 - under development | Standard Guide for Using Scanning Electron Microscopy for Morphology and Energy Dispersive Spectroscopy in Forensic Soil and Geological Materials Analysis     |
| Geological Materials            | TIER 4 - under development | Standard Guide for the Use of Polarized Light Microscopy in the Forensic Examination and Comparison of Geological Sediments                                    |
| Geological Materials            | TIER 4 - under development | Standard Guide for the Analysis of Forensic Geological Materials by Powder X-Ray Diffraction   |
| Geological Materials            | TIER 4 - under development | Standard Guide for Fractionation of Soil in Forensic Soil Examinations   |
| Geological Materials            | TIER 4 - under development | Standard Terminology for Forensic Analysis of Soils and Other Geological Materials   |
| Geological Materials            | TIER 4 - under development | Standard Practice for Education and Training in Forensic Geology   |
| Geological Materials            | TIER 4 - under development | Standard Practice for a Forensic Soil/Geology Training Program   |
| Geological Materials            | TIER 4 - under development | Standard Guide for Opinions and Testimony in Forensic Geology  |
| Geological Materials            | TIER 4 - under development | Standard Guide for the Collection and Analysis of Pollen for Forensic Application  |
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| Gunshot Residue                 | TIER 4 - under development | GSR Testimony  |
| Gunshot Residue                 | TIER 4 - under development | Report Writing, Qualifying Statements and Interpretation   |
| Gunshot Residue                 | TIER 4 - under development | Organic Gunshot Residue Methodology, Instrumentation and Acceptability   |
| Gunshot Residue                 | TIER 4 - under development | Inorganic Gunshot Residue  |
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| Materials (Trace)               | TIER 4 - under development | Standard Guide for the Forensic Examination of Non-Reactive Dyes in Textile Fibers by Thin-Layer Chromatography  |
| Materials (Trace)               | TIER 4 - under development | Standard Guide for Using Scanning Electron Microscopy/X-Ray Spectrometry in Forensic Paint Examinations  |
| Materials (Trace)               | TIER 4 - under development | Trace Evidence Field Guide - for crime scene personnel for collection of trace evidence  |
| Materials (Trace)               | TIER 4 - under development | Standard Practice for Interpretation and Report Writing in Forensic Comparisons of Trace Materials   |
| Materials (Trace)               | TIER 4 - under development | Standard Guide for Forensic Tape Analysis and Comparison   |
| Materials (Trace)               | TIER 4 - under development | Standard Practice for a Forensic Fiber Analysis and Training Program   |
| Materials (Trace)               | TIER 4 - under development | Standard Practice for a Forensic Glass Analysis and Training Program   |
| Materials (Trace)               | TIER 4 - under development | Standard Guide for Using Pyrolysis Gas Chromatography and Pyrolysis Gas Chromatography-Mass Spectrometry in Forensic Polymer Examinations                      |
| Materials (Trace)               | TIER 4 - under development | Standard Guide for Forensic Glass Analysis and Comparison  |
| Materials (Trace)               | TIER 4 - under development | Standard Guide for Forensic Fiber Analysis and Comparison  |
| Materials (Trace)               | TIER 4 - under development | Standard Guide for Forensic Analysis of Fibers by MSP  |
|                                 |                            |  |
| Medicolegal Death Investigation | TIER 4 - under development | Standard for capturing common data elements in medicolegal death investigation (working title only)  |
| Medicolegal Death Investigation | TIER 4 - under development | Model law for medical research   |
| Medicolegal Death Investigation | TIER 4 - under development | Terminology  |
| Medicolegal Death Investigation | TIER 4 - under development | Death investigator workload  |
|                                 |                            |  |
| Odontology                      | TIER 4 - under development | Bitemark Analysis, Comparison and Reporting: Standards and Best Practices for the Forensic Dentist and Investigator  |
| Odontology                      | TIER 4 - under development | Proposed Guidelines and Best Practices for Human Abuse Recognition by Dental Professionals   |
|                                 |                            |  |
| Seized Drugs                    | TIER 4 - under development | Standard Guide for Intralaboratory Blind Quality Control Program for Seized Drugs  |
| Seized Drugs                    | TIER 4 - under development | Standard Guide for the Development and Suitability Assessment of Electron Ionization-Mass Spectral (EI-MS) Libraries for Databases for Forensic Identification |
| Seized Drugs                    | TIER 4 - under development | Standard for Court Testimony   |
| Seized Drugs                    | TIER 4 - under development | Standard Guide for Assessment of Infrared Spectroscopy Data During the Qualitative Analysis of Seized Drugs  |
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| Speaker Recognition             | TIER 4 - under development | Foundational Scientific Literature for Forensic Speaker Recognition  |
| Speaker Recognition             | TIER 4 - under development | Roadmap for Speaker Recognition  |
| Speaker Recognition             | TIER 4 - under development | Research Priorities  |
| Speaker Recognition             | TIER 4 - under development | Best practices for Human-Supervised Speaker Recognition: Pre-Processing and Relevant Population Data Selection   |

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| Speaker Recognition                 | TIER 4 - under development | Vocabulary Terms for Speaker Recognition   |
|                                     |                            |  |
| Toxicology                          | TIER 4 - under development | ASB 056, Standard Practices for Measurement Uncertainty in Forensic Toxicology                                 |
| Toxicology                          | TIER 4 - under development | ASB 058, Standard Method for Blood Ethanol Identification and Quantitation in Forensic Toxicology Laboratories |
| Toxicology                          | TIER 4 - under development | ASB 118, Standard for Breath Alcohol Instrumentation Specifications  |
| Toxicology                          | TIER 4 - under development | ASB 122, Guidelines for Alcohol Calculations in Forensic Toxicology  |
| Toxicology                          | TIER 4 - under development | Quality Assurance Management Systems in Forensic Toxicology Laboratories                                       |
| Toxicology                          | TIER 4 - under development | Standard Practices for Proficiency Testing of Forensic Toxicology Laboratories                                 |
| Toxicology                          | TIER 4 - under development | Guidelines for Specimen Collection and Preservation in Forensic Toxicology                                     |
| Toxicology                          | TIER 4 - under development | Standard Practice for the Content of Forensic Toxicology Standard Operating Procedures                         |
| Toxicology                          | TIER 4 - under development | Taxonomy Guidelines in Forensic Toxicology   |
|                                     |                            |  |
| Video/Imaging Technology & Analysis | TIER 4 - under development | Standard Guide for Content and Source Authentication   |
| Video/Imaging Technology & Analysis | TIER 4 - under development | Standard Guide for Forensic Photogrammetry   |
| Video/Imaging Technology & Analysis | TIER 4 - under development | Standard Guide for Forensic Digital Video Analysis   |
|                                     |                            |  |
| Wildlife Forensics                  | TIER 4 - under development | Standard for use of Public Databases for Wildlife Forensic Protocol  |
| Wildlife Forensics                  | TIER 4 - under development | Method for Geographic Assignment of Individual Animals   |
| Wildlife Forensics                  | TIER 4 - under development | Validation of Wildlife Sequences in Public Databases   |
| Wildlife Forensics                  | TIER 4 - under development | Wildlife Forensics Reference Collection Standards  |
| Wildlife Forensics                  | TIER 4 - under development | Best Practices for Building New STR Panels in Wildlife Forensics   |
| Wildlife Forensics                  | TIER 4 - under development | Genetic Methods to Determine an Individual of Potential Hybrid Origin  |
| Wildlife Forensics                  | TIER 4 - under development | Standard for the Development and Use of In-House Sequence Databases for Taxonomic Assignment of Wildlife       |
| Wildlife Forensics                  | TIER 4 - under development | Standard for the Development and Use of Allele Frequency and Population Genetics Databases                     |
|                                     |                            |  |