Proficiency and Competency Testing Services 2017
Declared Double Blind Proficiency Test Design

“Double Blind - n. an experimental procedure in which neither the subjects of the experiment nor the persons administering the experiment know the critical aspects of the experiment; a double-blind procedure is used to guard against both experimenter bias and placebo effects”

http://wordnet.princeton.edu

The Forensic Assurance Advantage

Declared Double Blind Test

Each forensic practitioner will receive a randomized test with the answers for that test being different from other tests used during the same testing cycle. The participant is aware that they are taking a test.

ISO/IEC 17043:

Forensic Assurance was the first forensic science proficiency test provider accredited in accordance with the recognized International Standard ISO/IEC 17043: Conformity Assessment – General Requirements for Proficiency Testing. Our management system meets the principles of ISO 9001:2008.

Statistics:

Forensic Assurance personnel collaborated with statisticians from the University of Michigan to develop statistical models that are used to calculate relevant statistics for the forensic science and legal communities. Included are false positive and false negative error rates, as well as, sensitivity and specificity.

Designed by Forensic Experts:

Forensic experts design and develop Forensic Assurance proficiency tests to ensure that the tests are relevant and appropriately challenging.
2017 Proficiency Tests

Forensic Biology
Forensic DNA
Probabilistic Genotyping Software (DNA Mixture Analysis)
Body Fluid Identification
Firearms Identification
Tool Mark Identification
Fingerprint Identification
Forensic Paint Analysis
Forensic Fiber Analysis
Footwear Identification
Gunshot Residue
Controlled Substances
Bloodstain Pattern Analysis
Fingerprint Processing

Price list is located on page 13

Approved Proficiency Test Provider

Forensic Assurance is an approved proficiency test provider for ASCLD/LAB, ANAB and A2LA. Our tests fulfill the external proficiency test requirement for ISO 17025 accredited laboratories.
Forensic DNA Competency Test

Forensic Assurance, Inc. is pleased to announce the addition of Forensic DNA Competency Tests to our line of products. Thorough quality validations are required to maintain a high quality crime laboratory. A key component of validation is to determine the competency of practitioners in the new chemistry, instrumentation, quantitation kit, or new extraction procedure as required by the Quality Assurance Standards for Forensic DNA Testing Laboratories (Standard 8.4). With the recent expansion of the CODIS core STR loci, the Federal Bureau of Investigation is requiring all CODIS participating laboratories to validate a new chemistry that amplifies the newly determined twenty CODIS core STR Loci in order to upload and search DNA profiles at NDIS by January 1, 2017. We understand that this is going to be a burden on each laboratory to accomplish during times of higher backlogs. For this reason, Forensic Assurance has developed a practical competency test that will fit the needs of your laboratory.

Each competency test will consist of two known blood samples, one mixed bloodstain, one mixed semen/bloodstain, and one single source bloodstain. Direct amplification samples (saliva) and additional mixed bloodstains (different mixture ratios) may be purchased as well and added to your 'customized' competency test. Our competency tests are declared double blind with numerous body fluid donors being used to randomize each test preventing the perception of any information sharing between analysts.

For more information and to order our competency tests, please visit our website at:


Please direct technical questions to Brandon Good at 248-773-5114 or email: bgood@forensicassurance.com

*** Note: Forensic Assurance is accredited under ISO/IEC 17043: Conformity Assessment – General Requirements for Proficiency Testing. Competency testing does not fall within our scope of accreditation.
Probabilistic Genotyping Software Proficiency Test
(DNA Mixture Analysis)

Each proficiency test design will include two evidentiary mixture samples (2, 3, or 4 person mixtures) and four known samples. The samples will be processed either per laboratory system, laboratory, or instrument depending on the technical leaders input. The generated data files will be distributed to the proficiency test participants for analysis. Participants are requested to compare each known sample to the mixture samples utilizing current probabilistic genotyping software and procedures. Each participant will need to determine the number of contributors to each evidentiary sample, the likelihood ratio of each comparison, and which hypothesis each likelihood ratio favors (prosecution or defense).

The purchase of the Forensic Probabilistic Genotyping Software Proficiency Test includes online answer sheet login credentials for two participants. Login credentials for additional participants can be purchased to accompany the purchased test samples.

Please direct technical questions to Brandon Good at 248-773-5114 or email: bgood@forensicassurance.com

Additional Information: The settings for the software programs that are available for DNA mixture analysis are specific to the instrumentation utilized by the laboratory. Participants are being testing on their ability to input data generated by the laboratories genetic analyzer into the software program, and not on their ability to properly process and analyze biological samples. It was determined appropriate to provide one biological sample set per laboratory system, laboratory, or instrument to generate the data that will be utilized by participants taking this test.

Spring 2017 Probabilistic Genotyping Software Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of May 8, 2017
Answer Submission Deadline: August 7, 2017

Fall 2017 Probabilistic Genotyping Software Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of November 6, 2017
Answer Submission Deadline: February 5, 2018
Forensic Biology Proficiency Test
Each proficiency test design will include randomly selected neat and/or mixture samples. All tests will contain multiple known contributor samples and multiple samples of unknown stains collected on various substrates. Serological screening of the unknown stains is required, and the results of the serological and DNA analysis will be collected for these tests. The Forensic Biology Proficiency Tests will be distributed four times a year (once per quarter). The distribution of these tests have been structured and scheduled to accommodate laboratories meeting the test frequency requirements of the DNA Advisory Board (DAB) FBI Quality Assurance Standards (QAS).

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Forensic DNA Proficiency Test
Each proficiency test design will include randomly selected neat and/or mixture samples. All tests will contain multiple known contributor samples and multiple samples of unknown stains collected on various substrates. The DNA results will be collected for these tests. Serological screening is not required in this test with the body fluid contents of each sample being provided to the participant. The DNA Proficiency Tests will be distributed four times a year (once per quarter). The distribution of these tests have been structured and scheduled to accommodate laboratories meeting the test frequency requirements of the DNA Advisory Board (DAB) FBI Quality Assurance Standards (QAS).

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Body Fluid Identification Proficiency Test

Each proficiency test design will include multiple randomly selected samples of biological stains. Participants will report results for screening tests only. This proficiency test is designed to test the ability of the participant to identify a variety of body fluids on various substrates.

Spring 2017 Forensic Body Fluid Identification Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of April 10, 2017
Answer Submission Deadline: July 10, 2017

Fall 2017 Forensic Body Fluid Identification Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of October 9, 2017
Answer Submission Deadline: January 8, 2018

Fingerprint Identification Proficiency Test:

Included in each test will be digital photographs of unknown fingerprints/palm prints and high-resolution scans of known suspect print cards. The Buyer has the option of purchasing the test as Digital Only (DVD containing digital unknown images and high-resolution scans of known print cards) or Printed and Digital (DVD plus the entire test printed). Participants will be tested on their ability to identify or eliminate the contributor(s) to the unknown latent prints and palm prints.

Winter 2017 Fingerprint Identification Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of February 6, 2017
Answer Submission Deadline: May 8, 2017

Summer 2017 Fingerprint Identification Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of August 7, 2017
Answer Submission Deadline: November 6, 2017
**Firearms Identification Proficiency Test**

Different make and model of firearms will be used in the development of the proficiency test items for each of the proficiency testing cycles. This allows participants to be tested on their ability to properly identify or eliminate fired ammunition components when different manufacturing processes are used in the development of the utilized firearms. Firearms that were consecutively manufactured, or manufactured in close time proximity to one another, are used in the development of many of our proficiency tests.

**Winter 2017 Firearms Identification Proficiency Test**
- Purchase Deadline: November 14, 2016
- Distribution: week of February 6, 2017
- Answer Submission Deadline: May 8, 2017

**Summer 2017 Firearms Identification Proficiency Test**
- Purchase Deadline: March 13, 2017
- Distribution: week of August 7, 2017
- Answer Submission Deadline: November 6, 2017

**Tool Mark Identification Proficiency Test**

Different tool actions and substrates will be used in the development of the proficiency test items for each of the proficiency testing cycles. Participants will be tested on their ability to properly produce known tool marks, compare known and unknown tool marks, and/or inter-compare unknown tool marks. New tools and heavily worn tools may be used in the development of proficiency test items, and variations in the class features of the tools and tool marks will test the examiner's proficiency in eliminating incompatible test items.

**Winter 2017 Tool Marks Identification Proficiency Test**
- Purchase Deadline: November 14, 2016
- Distribution: week of February 6, 2017
- Answer Submission Deadline: May 8, 2017

**Summer 2017 Tool Marks Identification Proficiency Test**
- Purchase Deadline: March 13, 2017
- Distribution: week of August 7, 2017
- Answer Submission Deadline: November 6, 2017
Forensic Fiber Analysis Proficiency Test

Each proficiency test will contain questioned and known fiber samples that represent typical fiber types encountered in casework (natural and/or synthetic). The fiber samples may be composed of pieces of fabric, yarns/threads, individual fibers, tape lifts or other suitable medium that are routinely encountered in casework. Participants are requested to compare the fiber samples utilizing their laboratory’s procedures and instrumentation.

Fall 2017 Forensic Fiber Analysis Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of November 6, 2017
Answer Submission Deadline: February 5, 2018

Forensic Paint Analysis Proficiency Test

Each proficiency test will contain questioned paint samples for comparison to known paint samples. These paint samples will represent typical types of paints (architectural, automotive, bicycle, spray paints, etc.) that are found in casework and may vary between single and multiple layers. The paint samples may be paint chips, smears, painted substrates or other forms that are routinely encountered in a forensic laboratory. Participants are requested to compare the different paint samples utilizing their laboratory’s procedures and instrumentation.

Summer 2017 Forensic Paint Analysis Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of August 7, 2017
Answer Submission Deadline: November 6, 2017
Footwear Identification Proficiency Test
Each proficiency test will contain digital images of different footwear impressions in a variety of mediums, which may include three-dimensional impressions in dirt/sand/snow, two-dimensional impressions in dust and/or developed with powders or other enhancement techniques. The tests will also contain digital images of the tread of known shoes and known shoe impressions for comparison to the questioned impressions. Participants are requested to examine and process the digital images of the questioned impressions as they would do in actual casework, and compare these images to the known shoes/impressions.

Spring 2017 Footwear Identification Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of May 8, 2017
Answer Submission Deadline: August 7, 2017

Gunshot Residue Proficiency Test
Participants are requested to visually examine and chemically process three unknown gunshot residue patterns. Their results are to be compared to high resolution printed images of unprocessed and chemically processed (Modified Griess Test and Sodium Rhodizonate Test) known distance gunshot residue patterns. The participants will be tested on their ability to properly process and evaluate gunshot residue patterns to determine a muzzle-to-target distance range.

Spring 2017 Gunshot Residue Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of May 8, 2017
Answer Submission Deadline: August 7, 2017
Bloodstain Pattern Analysis Proficiency Test

Each test will contain digital images of bloodstain patterns. Participants will be asked to classify the pattern types. In addition, digital images of an impact bloodstain pattern will also be provided with specific spatter stains selected for the participant to measure and calculate the angle of impact.

Summer 2017 Bloodstain Pattern Analysis Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of July 10, 2017
Answer Submission Deadline: October 9, 2017

Controlled Substances Proficiency Test

Each proficiency test will contain two unknown samples to analyze for the possible presence and identification of a controlled substance(s). The samples may be powders, solids, plant materials, or other forms that are routinely encountered in a forensic laboratory. Participants are requested to identify the controlled substances using their laboratory procedures and instrumentation.

Spring 2017 Controlled Substances Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of May 8, 2017
Answer Submission Deadline: August 7, 2017

Fall 2017 Controlled Substances Proficiency Test
Purchase Deadline: March 13, 2017
Distribution: week of November 6, 2017
Answer Submission Deadline: February 5, 2018
Included in each test will be a total of six proficiency test items - three samples each of two different types of surfaces for processing. The types of surfaces and matrix will be adjusted each year. The surfaces and matrices are chosen from porous, non-porous, and adhesive surfaces and may include a natural matrix or a blood matrix. For porous and non-porous surfaces a control will also be included on the sample. The latent prints will be laid down on the sample with a portion of the latent print being retained by Forensic Assurance in order to offer quality control if an unexpected answer is submitted. Participants will be tested on their choice of an appropriate processing technique for the surface and their ability to develop the latent prints.

Spring 2017 Fingerprint Processing Proficiency Test
Purchase Deadline: November 14, 2016
Distribution: week of May 8, 2017
Answer Submission Deadline: August 7, 2017
2017 Proficiency Test Price List

Forensic Biology Proficiency Test: $180
Forensic DNA Proficiency Test: $180
Probabilistic Genotyping Software (DNA Mixture Interpretation) Proficiency Test (PGS): $500

Additional Participants - PGS Proficiency Test: $200
Body Fluid Identification Proficiency Test: $225
Firearms Identification Proficiency Test: $175
Tool Marks Identification Proficiency Test: $200

Fingerprint Identification Proficiency Test: Digital Only ($350) / Digital and Printed ($380)
Forensic Paint Analysis Proficiency Test: $140
Forensic Fiber Analysis Proficiency Test: $140
Footwear Identification Proficiency Test: $225
Gunshot Residue Proficiency Test: $250
Controlled Substances Proficiency Test: $180
Bloodstain Pattern Analysis: $300
Fingerprint Processing Proficiency Test: $220

To order, please visit our website at
www.forensicassurance.com

or contact a member of our sales team:
William – (248) 962-3186 (william@forensicassurance.com)
Dorothy – (248) 962-3184 (dorothy@forensicassurance.com)

**Please contact us regarding discounts for multi-year contracts**

Please see the Forensic Assurance DNA Competency Test Order Form for pricing information for these tests.