



## OVERVIEW

### Key Concepts of Forensic Science

- Applications of a scientific method, tool, or technique to aid an investigation or judicial proceeding
- Used to support or refute hypotheses about how an event occurred
- Results integrated into the investigation, part of a larger story
- Many subdisciplines

#### Forensic laboratory



#### Medical examiner



### Characteristics of Forensic Data and Results

- Specific and complete, including caveats or limitations
- Reproducible; another forensic scientist provided with the same evidence and information should obtain the same results
- **Falsifiable**; results must be stated such that they can be tested for accuracy and completeness. A specific DNA profile or a specific blood alcohol measurement is falsifiable because the results can be confirmed by scientific testing
- Relevant to the case at hand. The analysis of a bloodstain sample would be done to obtain the DNA profile; cholesterol level in the blood is irrelevant

### Selected Historical Figures

- Alphonse Bertillon (1853–1914; French)
  - Used measurements of physical features for identification called **anthropometry** or **Bertillonage**. Replaced by fingerprinting
- Francis Galton (1822–1911; English)
  - Fingerprints
- Alexander Genter (1883–1968; American)
  - Forensic toxicology. Performed chemical analysis for the New York Office of Chief Medical Examiner (OCME)
- Calvin Goddard (1891–1955; American)
  - Comparison microscopy and firearms
- Hans Gross (1847–1915; Austrian)
  - Coined the term **criminalistics**

- Alice Jefferys (1950–; English)
  - Developed early DNA testing methods
  - First to use DNA typing in a criminal matter (Colin Pitchfork case)
- Paul Kirk (1902–1970; American)
  - Generalist and educator
- Edmond Locard (1877–1966; French)
  - Trace evidence. Opened an early forensic laboratory
  - Credited for Locard's Exchange Principle, paraphrased as "every contact leaves a trace"
- Charles Norris (1867–1935; American)
  - Physician. Early head of the OCME
- Mathieu Orfila (1787–1853; Spanish)
  - Worked in Italy and France. Forensic toxicologist and educator
  - Utilized the Marsh test for arsenic in the LaFarge case
- Bernard Spilsbury (1877–1947; English)
  - Physician and forensic pathologist

### Bias and Human Error

- **Bias** can cause results of a forensic analysis to be influenced by factors other than evidence and testing results
- Usually unintended and unconscious
- Can be caused by **contextual information** irrelevant to the case
- **Confirmation bias** can occur if a specific result is anticipated or expected
- Prosecutorial bias/defense bias favors a specific side in the dispute

### Interface with the US Legal System

- **US legal system**
  - Legal system designed to settle disputes
- **Adversarial**: based on comparing competing arguments
  - Criminal cases
    - Accused/defendant vs. government (local/state/federal)
    - Prosecution vs. defense
    - **Burden of proof** on prosecution
    - Standard of proof: beyond a reasonable doubt
  - Civil cases
    - Individual vs. individual, corporations, companies, etc.
    - Plaintiff vs. defense

### Quality assurance/quality control (QA/QC)

- Practices and procedures used to ensure that forensic data are relevant and trustworthy
- **Cradle-to-grave process**—from evidence creation to final disposition
- Forensic laboratories can be **accredited**
- Analysts may be **certified** in some disciplines

- Burden of proof on prosecution
- Standard of proof: preponderance of evidence
- **Jurisdiction**: the entity empowered to hear a case—local (town, city, county), state, and federal
- Decision rendered by **trier of fact** (judge or jury)
- Relies on precedent—rulings by previous courts

### US Rules of Evidence

- Process to allow evidence to be presented in a legal proceeding
- Evidence is admissible if it meets **admissibility standards**
- Applies to forensic results and data
- Admissibility standards vary across jurisdictions
- **Frigo standard**
  - Informally called **general acceptance** admissibility standard
  - 1923 ruling
  - Decision to reject admission of polygraph (lie detector) test
  - Court ruled that to admit new type of test, it must have been accepted within that scientific discipline
- Federal Rules of Evidence
  - Congressionally enacted 1975
  - Frequently updated
  - Applies to federal jurisdictions
  - Adopted by other jurisdictions
  - Guidelines for expert testimony
- **Daubert standard**
  - Informally called **gatekeeper** standard
  - 1993 ruling in civil case
  - Trial judge to make admissibility decision; judge as **gatekeeper**
  - Ruling provided guidelines for making this decision
  - Included general acceptance, validation of method, standards, limitations, and potential errors
  - Part of **Daubert trilogy** of cases
- **Joiner decision**
  - Second of **Daubert trilogy**
  - 1997 ruling in civil case
  - Scientific evidence must be directly relevant
- **Kumho decision**
  - Third case of **Daubert trilogy**
  - 1999 ruling in civil case
  - Extended definition of expert beyond traditional sciences

- Methods executed by **standard operating procedure (SOP)**
- **Traceability**: ability to trace result directly to nationally/internationally accepted standard
- **Control samples** analyzed with evidence
- Results reviewed by colleagues (**peer review**)
- Data reviewed and confirmed

### Laboratory accreditation



### Analyst certification

# Forensic Science Study Guide

**Prentice-Hall Staff**



## **Forensic Science Study Guide:**

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considerations and ways to avoid another controversy like Ferguson Dallas or Baltimore

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guide follows the guidelines for the exam and presents all the information necessary to prepare individuals to pass the exam

**SSCP (ISC)2 Systems Security Certified Practitioner Official Study Guide** George Murphy, 2015-09-01 NOTE The exam this book covered SSCP ISC 2 Systems Security Certified Practitioner was retired by ISC 2 in 2019 and is no longer offered For coverage of the current exam ISC 2 SSCP Systems Security Certified Practitioner please look for the latest edition of this guide ISC 2 SSCP Systems Security Certified Practitioner Official Study Guide 2nd Edition 9781119542940 This guide prepares you for the SSCP Systems Security Certified Practitioner certification examination by focusing on the Common Body of Knowledge CBK as determined by ISC2 in seven high level topics This Sybex Study Guide covers 100% of all exam objectives You ll prepare for the exam smarter and faster with Sybex thanks to expert content real world practice access to the Sybex online interactive learning environment and much more Reinforce what you ve learned with key topic exam essentials and chapter review questions Along with the book you also get access to Sybex s superior online interactive learning environment that includes 125 question practice exam to help you identify where you need to study more Get more than 90 percent of the answers correct you re ready to take the certification exam More than 100 Electronic Flashcards to reinforce your learning and give you last minute test prep before the exam A searchable glossary in PDF to give you instant access to the key terms you need to know for the exam Appendix of charts tables typical applications and programs Coverage of all of the exam topics in the book means you ll be ready for Access Controls Security Operations and Administration Risk Identification Monitoring and Analysis Incident Response and Recovery Cryptography Network and Communications Security Systems and Application Security

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Fundamentals of Forensic Science Third Edition provides current case studies that reflect the ways professional forensic scientists work not how forensic academicians teach The book includes the binding principles of forensic science including the relationships between people places and things as demonstrated by transferred evidence the context of those people places and things and the meaningfulness of the physical evidence discovered along with its value in the justice system Written by two of the leading experts in forensic science today the book approaches the field from a truly unique and exciting perspective giving readers a new understanding and appreciation for crime scenes as recent pieces of history each with evidence that tells a story Straightforward organization that includes key terms numerous feature boxes emphasizing online resources historical events and figures in forensic science Compelling actual cases are included at the start of each chapter to illustrate the principles being covered Effective training including end of chapter questions paired with a clear writing style making this an invaluable resource for professors and students of forensic science Over 250 vivid color illustrations that diagram key concepts and depict evidence encountered in the field      **Forensic Chemistry and Toxicology** Suzanne Bell,2022-11 Essential principles of forensic chemistry and toxicology for core crime scene evidence analysis concisely written by expert in the field Suzanne Bell PhD from Los Alamos National Laboratory then professor at Eastern Washington University and Chair of the National Commission on Forensic Science The wealth of answers in this 6 page laminated color coded outline format including equations graphs and diagrams cannot be missed for those studying in this field and well beyond school for a quick look up and refresher QuickStudy guides are proven to boost retention and test scores and as customers attest are handy throughout a career Also buy Dr Bell s Forensic Science guide to complete the pair and ad these powerful and simple to use tools to your library for a price so low it s a crime 6 page laminate guide includes Measurement Science Metrology Uncertainty Fundamentals of Statistics Assuring Data Quality Calibration Control Charts Method Validation Sampling Measurement Uncertainty MU Key Chemical Concepts Equilibrium Constants Partitioning Ionizable

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