



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

- Alec 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 decisions; 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

Tiffany Roy, Tatum Price



Forensic Science Study Guide:

Forensic Science Suzanne Bell, 2022-11 Essential principles of forensic science for core crime scene evidence collection and evaluation 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 diagrams and photos cannot be missed for those studying in this field or for the serious and curious true crime fans looking for the facts about crime scene investigation QuickStudy guides are proven to improve retention test scores and act as a refresher for those professionals beyond study Also buy her Forensic Chemistry Toxicology guide to dig even deeper into evidence analysis and add these powerful and simple to use tools to your library for a price so low it's a crime 6 page laminated guide includes Key Concepts Data Results Historical Figures Bias Human Error Interface with the US Legal System Crime Scenes Processing Evidence Collection Bloodstain Pattern Analysis BPA Pattern Evidence Successive Classification Fingerprints Firearms Toolmarks Tread Pattern Medicolegal Death Investigation Biological Evidence Types of Fluids Presumptive Screening Testing Genetic Marker Systems DNA Typing Chemical Evidence Seized Drug Analysis Toxicology Fire Debris Analysis Explosives Trace Evidence Trace Transfer Evidence Microscopy Analysis Types of Trace Evidence Other Forensic Disciplines Questioned Document Examination Forensic Anthropology Forensic Entomology Forensic Engineering Computer Forensics Behavioral Science

Fundamentals of Forensic Science Max M. Houck, Jay A. Siegel, 2015-07-01 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

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FORENSIC SCIENTIST I (TOXICOLOGY) National Learning Corporation,2019

Gale Researcher Guide for: Overview of Criminal Investigation and Forensic Science Julie Campbell,2018-08-30 Gale Researcher Guide for Overview of Criminal Investigation and Forensic Science is selected from Gale s academic platform Gale Researcher These study guides provide peer reviewed articles that allow students early success in finding scholarly materials and to gain the confidence and vocabulary needed to pursue deeper research

The Official CHFI Study Guide (Exam 312-49) Dave Kleiman,2011-08-31 This is the official CHFI Computer Hacking Forensics Investigator study guide for professionals studying for the forensics exams and for professionals needing the skills to identify an intruder s footprints and properly gather the necessary evidence to prosecute The EC Council offers certification for ethical hacking and computer forensics Their ethical hacker exam has become very popular as an industry gauge and we expect the forensics exam to follow suit Material is presented in a logical learning sequence a section builds upon previous

sections and a chapter on previous chapters All concepts simple and complex are defined and explained when they appear for the first time This book includes Exam objectives covered in a chapter are clearly explained in the beginning of the chapter Notes and Alerts highlight crucial points Exam s Eye View emphasizes the important points from the exam s perspective Key Terms present definitions of key terms used in the chapter Review Questions contains the questions modeled after real exam questions based on the material covered in the chapter Answers to the questions are presented with explanations Also included is a full practice exam modeled after the real exam The only study guide for CHFI provides 100% coverage of all exam objectives CHFI Training runs hundreds of dollars for self tests to thousands of dollars for classroom training

Effective Police Supervision Study Guide Chris Rush Burkey,Larry S. Miller,Michael C. Braswell,2017-03-16 Good police officers are often promoted to supervisory positions with little or none of the training it takes to be a good manager An understanding of group behaviors and organizational dynamics is necessary to grasp the fundamentals of managing police officers The Effective Police Supervision Study Guide coordinates with the core text used in many college level classes and police departments to teach supervisory practices in criminal justice This study guide prepares both students and professionals for academic or promotional exams offering them an opportunity to fully review the material so that they are well prepared for testing This new edition like the new edition of the textbook it accompanies includes information on the following topics police accountability police involvement with news media the challenges of dealing with social media updates on legal considerations and ways to avoid another controversy like Ferguson Dallas or Baltimore **Studyguide for Forensic Science** Cram101 Textbook Reviews,2013-05 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780872893795 This item is printed on demand **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

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SSCP (ISC)2 Systems Security Certified Practitioner Official Study Guide George Murphy,2015-09-15 Fully updated Study Guide for the SSCP 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

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Forensic Science Jay Siegel, 2009-04-16 In the wake of the phenomenal success of such shows as CSI forensic science has never been so popular The obsessive attention to detail that Grissom and his crew afford seemingly insignificant details such as particles of dirt in a bullet wound and the presence of pollen in tyre tracks have had audiences eager to know more Siegel's study follows the course of evidence all the way from the crime scene right through to the court judgement investigating the many types of evidence how they occur in crimes how they are collected and analyzed by scientists and how the results are presented in court Packed with real examples the book covers all the major areas of forensic science including drugs trace evidence pathology entomology odontology anthropology crime scene investigation and law

Document Retrieval Index, 1976

The Complete Guide to the ABC Molecular Biology Certification Exam Tiffany Roy, Tatum Price, 2020-04-03 In 2009 the National Academy of Sciences NAS authored the report Strengthening Forensic Science in the United States A Path Forward In it the Committee expressed the need for accreditation and certification Accreditation long recognized by public labs as an important benchmark in quality was recognized as an important way to standardize laboratories that provide forensic services Certification can play an important role as a method of oversight in the forensic sciences something also recommended by the National Commission on Forensic Science in October 2014 The Complete Guide to the ABC's Molecular Biology is a professional certification examination preparation text for forensic scientists taking the American Board of Criminalistics Examination in Molecular Biology The book serves as a resource for forensic scientists who are facing more and more pressure to become certified to support them in their pursuit of forensic certification In the years since the NAS report was published there has been increased discussion of forensic certification requirements ABC's Molecular Biology exam is a quality certification and learning the concepts for it will invariably help any professional working in the field The book prepares readers in all relevant topic areas including accreditation safety biological screen principles anatomy and cell biology crime scene and evidence handling concepts in genetics biochemistry statistics DNA evidence and DNA testing The book will be particularly helpful for forensic science laboratory technicians police and investigations professionals forensic serology and DNA analysts attorneys and forensic science students This study guide follows the guidelines for the exam and

presents all the information necessary to prepare individuals to pass the exam **FORENSIC SCIENTIST TRAINEE**
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Table of Contents Forensic Science Study Guide

1. Understanding the eBook Forensic Science Study Guide
 - The Rise of Digital Reading Forensic Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Forensic Science Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Forensic Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Forensic Science Study Guide
 - Personalized Recommendations

- Forensic Science Study Guide User Reviews and Ratings
- Forensic Science Study Guide and Bestseller Lists
- 5. Accessing Forensic Science Study Guide Free and Paid eBooks
 - Forensic Science Study Guide Public Domain eBooks
 - Forensic Science Study Guide eBook Subscription Services
 - Forensic Science Study Guide Budget-Friendly Options
- 6. Navigating Forensic Science Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Forensic Science Study Guide Compatibility with Devices
 - Forensic Science Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Forensic Science Study Guide
 - Highlighting and Note-Taking Forensic Science Study Guide
 - Interactive Elements Forensic Science Study Guide
- 8. Staying Engaged with Forensic Science Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Forensic Science Study Guide
- 9. Balancing eBooks and Physical Books Forensic Science Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Forensic Science Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Forensic Science Study Guide
 - Setting Reading Goals Forensic Science Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Forensic Science Study Guide
 - Fact-Checking eBook Content of Forensic Science Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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