Nevada CTE

Forensic Science (2014)

Explore Foundations of Forensic Science FS.1

1 Examine the History of Forensic Science FS.1.1

1. Define forensic science FS.1.1.1
2. Identify the major disciplines it encompasses FS.1.1.2
3. Construct a timeline of significant contributions in forensic science FS.1.1.3
4. Research major contributors to the field of forensic science FS.1.1.4
5. Recognize and implement Locard's Exchange Principle FS.1.1.5

2 Understand the Role of Forensic Science in the Criminal Justice System FS.1.2

1. Differentiate between local , state, and federal agencies FS.1.2.1
2. Summarize roles of the law enforcement organizations FS.1.2.2
3. Research duties and responsibilities of forensic science personnel FS.1.2.3

3 Examine Different Types of Evidence FS.1.3

1. Compare and contrast physical and testimonial evidence FS.1.3.1
2. Identify legal and proper evidence collection techniques FS.1.3.2
3. Categorize physical evidence FS.1.3.3
4. Evaluate evidence for its probative value in criminal proceedings FS.1.3.4

4 Explore Careers in Forensic Science FS.1.4

1. Investigate the variety of careers in the forensic science field FS.1.4.1
2. Research educational requirements for forensic careers FS.1.4.2

Examining Legal and Ethical Issues in Forensic Science FS.2

1 Examine Legal Issues FS.2.1

1. Explore the Fourth Amendment and recognize legal search and seizures FS.2.1.1
2. Model procedures to ensure chain of custody when collecting evidence FS.2.1.2
3. Research Frye, Miranda, and Daubert court cases FS.2.1.3
4. Understand how landmark court cases have determined admissibility of evidence in courtrooms FS.2.1.4
5. Employ good practices of confidentiality FS.2.1.5

xamine Ethical Issues FS.2.2

Define ethics, integrity, and bias FS.2.2.1

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2 Research case studies to illustrate proper guidelines FS.2.2.2

3 Practice unbiased evidence collection, forensic analysis, and testimony FS.2.2.3

3 Model Professionalism FS.2.3

1 Recognize and implement a proper code of conduct for a career in the forensic field FS.2.3.1

2 Recognize and implement proper etiquette for crime scene investigations FS.2.3.2

3 Apply good communication through verbal, written and testimonial skills FS.2.3.3

Explore Crime Scene Investigations FS.3

1 Identify and Utilize Crime Scene Procedures FS.3.1

1 Demonstrate proper procedures to secure a crime scene FS.3.1.1

2 Identify the scope of a crime scene FS.3.1.2

3 Identify safety hazards in crime scene investigation FS.3.1.3

4 Implement proper safety protocols FS.3.1.4

5 Describe and implement searching techniques FS.3.1.5

6 Examine constitutional/legal protections in crime scene investigations FS.3.1.6

7 Identify and utilize information sources during an investigation FS.3.1.7

2 Utilize Scene Documentation FS.3.2

1 Recognize and implement appropriate measurement technique FS.3.2.1

2 Utilize note taking techniques FS.3.2.2

3 Explain procedures in crime scene photography FS.3.2.3

4 Implement sketching/diagramming techniques FS.3.2.4

5 Prepare evidence logs FS.3.2.5

6 Explain scene reconstruction FS.3.2.6

7 Prepare crime scene investigation reports FS.3.2.7

3 Examine Evidence Colleciton FS.3.3

1 Recognize potential evidence sources FS.3.3.1

2 Identify sources of potential contamination FS.3.3.2

3 Apply appropriate crime scene and evidence processing techniques FS.3.3.3

4 Recognize and implement chain of custody procedure FS.3.3.4

5 Demonstrate packaging and sealing techniques FS.3.3.5

Recognize and Implement Laboratory Fu

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1 Explore Safety FS.4.1

1 Explain general lab safety FS.4.1.1

2 Identify and utilize personal protective equipment (PPE) FS.4.1.2

3 Identify biological hazards FS.4.1.3

4 Identify chemical hazards FS.4.1.4

5 Understand proper disposal procedures FS.4.1.5

2 Recognize and Utilize Lab Skills FS.4.2

1 Distinguish appropriate measurement devices for tasks FS.4.2.1

2 Identify and utilize appropriate lab equipment FS.4.2.2

3 Understand contamination control procedures FS.4.2.3

3 Understand Quality Assurance FS.4.3

1 Explore individual certification requirements FS.4.3.1

2 Explore laboratory accreditation requirements FS.4.3.2

3 Understand quality control analysis procedures FS.4.3.3

Explore Forensic Disciplines FS.5

1 Examine Biological Evidence FS.5.1

1 Recognize types of biological evidence FS.5.1.1

2 Describe methodology for current biological evidence analysis techniques FS.5.1.2

3 Compare and contrast presumptive and confirmatory results in biological analysis FS.5.1.3

4 Critique the combined DNA index system (CODIS) FS.5.1.4

5 Summarize interpretation and conclusions for biological evidence analysis FS.5.1.5.

6 Compose report for biological evidence analysis FS.5.1.6

2 Examine Chemical Evidence FS.5.2

1 Recognize types of chemical evidence FS.5.2.1

2 Describe methodology for toxicology, controlled substances and arson analysis FS.5.2.2

3 Compare and contrast presumptive and confirmatory results in chemical analysis FS.5.2.3

4 Summarize interpretation and conclusions for toxicology, controlled substance and arson analysis FS.5.2.4

5 Compose reports for toxicology, controlled substance, and arson analysis FS.5.2.5

3 Examine Fingerprint Evidence FS.5.3

1 Compare and contrast latent, plastic, patent, and ink prints FS.5.3.1

2 Compare and contrast latent print processing techniques FS.5.3.2

3 Understand photography as it applies to latent print processing and recovery FS.5.3.3

4 Understand comparison methodology FS.5.3.4

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5 Understand structure of automated fingerprint identification system (AFIS) FS.5.3.5

6 Summarize interpretation and conclusions for fingerprint evidence FS.5.3.6

7 Compose report for fingerprint comparison FS.5.3.7

4 Examine Firearm and Tool Mark Evidence FS.5.4

1 Recognize firearms and tool mark evidence FS.5.4.1

2 Describe methodologies for firearm, tool mark and serial number restoration FS.5.4.2

3 Understand structure of National Integrated Ballistic Information Network (NIBIN) FS.5.4.3

4 Summarize interpretation and conclusions for firearms, tool marks and serial number restoration FS.5.4.4

5 Compose reports for firearms, tool marks and serial number restoration FS.5.4.5

5 Examine Additional Disciplines FS.5.5

1 Explore question documents FS.5.5.1

2 Explore shoe and tire impression evidence FS.5.5.2

3 Explore trace evidence FS.5.5.3

4 Explore digital evidence FS.5.5.4

Understand Courtroom Proceedings FS.6

1 Identify Courtroom Processes FS.6.1

1 Identify roles and responsibilities of courtroom personnel FS.6.1.1

2 Identify the components of legal proceedings FS.6.1.2

2 Describe the Role of Expert Witnesses FS.6.2

1 Compare and contrast qualifications of expert versus lay witnesses FS.6.2.1

2 Describe forensic methodology to jury FS.6.2.2

3 Demonstrate courtroom demeanor FS.6.2.3

4 Understand direct examination questioning FS.6.2.4

5 Understand cross examination questioning FS.6.2.5

Explore Forensic Specialties FS.7

1 Explore Death Investigation FS.7.1

1 Discuss the determination of cause and manner of death FS.7.1.1

2 Explore forensic pathology FS.7.1.2

3 Compare and contrast injury types FS.7.1.3

Distinguish post-mortem changes FS.7.1.4

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xplore Forensic Anthropology FS.7.2

1. Define anthropology FS.7.2.1
2. Explore the examination of skeletal remains FS.7.2.2
3. Develop an anthropological profile FS.7.2.3

3 Explore Forensic Entomology FS.7.3

1. Discuss the determination of post-mortem interval FS.7.3.1
2. Identify entomological collection procedure FS.7.3.2
3. Identification of species using a variety of sources FS.7.3.3

4 Explore Forensic Odontology FS.7.4

1. Understand dental identification FS.7.4.1
2. Critique bite mark analysis FS.7.4.2

5 Explore Forensic Psychology FS.7.5

1. Discuss forensic psychology in criminal investigations FS.7.5.1
2. Explore psychological/criminal profiling FS.7.5.2