



# Biological Evidence Screening Exam Blueprint

This blueprint and reference list serves as the study guide for this exam. The blueprint contains the main knowledge/skill domains the exam will cover. For each domain, a list of job tasks requiring the domain are included. The job tasks are organized by highest to lowest score of the combined frequency and importance of each task. The domains and associated tasks should serve as a guide when studying for the exam.

The reference list is sufficient to prepare you for this exam. Similar information may be obtained by studying earlier or later editions of the listed works, as well as other works covering the same topics.

Knowledge/Skill Domains	Tasks using domain knowledge & skills	Frequency & Importance Score Quartiles (Top to bottom, 1-4)
<b>1 Science &amp; Math</b>		
<b>1.1 Biology (e.g. molecular, cellular)</b>	B5: Perform tests for blood B6: Perform tests for semen	1
	B8: Perform microscopic examinations G5: Participate in proficiency testing G12: Perform contamination prevention procedures B7: Perform tests for miscellaneous body fluids A2: Develop testing plan G4: Verify reagent quality F4: Provide testimony (e.g. depositions, court) E5: Communicate technically reviewed results (e.g. written, verbal)	2
	B4: Document evidence H1: Review current literature B9: Collect samples from evidence E2: Conduct technical review K2: Participate in laboratory meetings (e.g. staff, QA, unit) E1: Write draft report (e.g. serology and/or DNA) E4: Address review issues (e.g. technical, administrative) A3: Coordinate testing with other disciplines B3: Address case discrepancies K4: Respond to daily inquiries (e.g. email, phone calls) H2: Complete continuing education activities	3
	G1: Prepare work area A1: Review case information G3: Prepare laboratory reagents	4
<b>1.2 Chemistry</b>	B5: Perform tests for blood B6: Perform tests for semen	1
	G5: Participate in proficiency testing G3: Prepare laboratory reagents B7: Perform tests for miscellaneous body fluids F4: Provide testimony (e.g. depositions, court) E5: Communicate technically reviewed results (e.g. written, verbal)	2
	H1: Review current literature E2: Conduct technical review E1: Write draft report (e.g. serology and/or DNA) E4: Address review issues (e.g. technical, administrative) G4: Verify reagent quality B3: Address case discrepancies H2: Complete continuing education activities K2: Participate in laboratory meetings (e.g. staff, QA, unit)	3
	B4: Document evidence A3: Coordinate testing with other disciplines G1: Prepare work area A1: Review case information G12: Perform contamination prevention procedures A2: Develop testing plan B8: Perform microscopic examinations K4: Respond to daily inquiries (e.g. email, phone calls)	4



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Knowledge/Skill Domains	Tasks using domain knowledge & skills	Frequency & Importance Score Quartiles (Top to bottom, 1-4)
1.6 Math	G5: Participate in proficiency testing G3: Prepare laboratory reagents F4: Provide testimony (e.g. depositions, court) E5: Communicate technically reviewed results (e.g. written, verbal)	2
	H1: Review current literature B8: Perform microscopic examinations G4: Verify reagent quality E2: Conduct technical review H2: Complete continuing education activities K2: Participate in laboratory meetings (e.g. staff, QA, unit)	3
	B4: Document evidence B9: Collect samples from evidence B10: Prepare samples for DNA processing B2: Inventory evidence items E1: Write draft report (e.g. serology and/or DNA) A2: Develop testing plan E4: Address review issues (e.g. technical, administrative) K4: Respond to daily inquiries (e.g. email, phone calls) E3: Conduct administrative review	4
<b>2 Quality Assurance/Quality Control</b>		
2.1 ISO 17025 / ANAB	E6: Issue final report A2: Develop testing plan G5: Participate in proficiency testing G4: Verify reagent quality F4: Provide testimony (e.g. depositions, court)	2
	E2: Conduct technical review	3
2.2 QAS	G5: Participate in proficiency testing	2
	A2: Develop testing plan F4: Provide testimony (e.g. depositions, court)	3
2.3 SWGDAM	G12: Perform contamination prevention procedures A2: Develop testing plan	2
	B9: Collect samples from evidence B5: Perform tests for blood B6: Perform tests for semen B8: Perform microscopic examinations E4: Address review issues (e.g. technical, administrative) E2: Conduct technical review	3
	B7: Perform tests for miscellaneous body fluids	
	B4: Document evidence F4: Provide testimony (e.g. depositions, court)	4



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Knowledge/Skill Domains	Tasks using domain knowledge & skills	Frequency & Importance Score Quartiles (Top to bottom, 1-4)
<b>3 Computer</b>		
<b>3.1 Computer</b>	B4: Document evidence	1
	B1: Maintain chain of custody B8: Perform microscopic examinations G5: Participate in proficiency testing	3
<b>3.2 LIMS</b>	E6: Issue final report E1: Write draft report (e.g. serology and/or DNA) K4: Respond to daily inquiries (e.g. email, phone calls) H1: Review current literature H2: Complete continuing education activities	4
	B4: Document evidence B1: Maintain chain of custody B10: Prepare samples for DNA processing B2: Inventory evidence items E6: Issue final report E1: Write draft report (e.g. serology and/or DNA) G5: Participate in proficiency testing G4: Verify reagent quality G3: Prepare laboratory reagents E2: Conduct technical review E3: Conduct administrative review B5: Perform tests for blood A1: Review case information B6: Perform tests for semen B8: Perform microscopic examinations H1: Review current literature H2: Complete continuing education activities B7: Perform tests for miscellaneous body fluids A3: Coordinate testing with other disciplines	4
<b>4 Communication</b>		
<b>4.1 Communication (e.g. oral, written, presentation, listening, interpersonal)</b>	B4: Document evidence	1
	E4: Address review issues (e.g. technical, administrative) E5: Communicate technically reviewed results (e.g. written, verbal) K4: Respond to daily inquiries (e.g. email, phone calls) E1: Write draft report (e.g. serology and/or DNA) K2: Participate in laboratory meetings (e.g. staff, QA, unit) F4: Provide testimony (e.g. depositions, court) B3: Address case discrepancies	2
	H2: Complete continuing education activities A1: Review case information G5: Participate in proficiency testing E2: Conduct technical review E3: Conduct administrative review	3
	B1: Maintain chain of custody A3: Coordinate testing with other disciplines E6: Issue final report H1: Review current literature	4



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Knowledge/Skill Domains	Tasks using domain knowledge & skills	Frequency & Importance Score Quartiles (Top to bottom, 1-4)
<b>5 Process</b>		
<b>5.1 Organizational (e.g. Time Management, Multi-Tasking)</b>	A2: Develop testing plan B9: Collect samples from evidence E4: Address review issues (e.g. technical, administrative) G5: Participate in proficiency testing	2
	B4: Document evidence E2: Conduct technical review E3: Conduct administrative review A3: Coordinate testing with other disciplines K4: Respond to daily inquiries (e.g. email, phone calls) K2: Participate in laboratory meetings (e.g. staff, QA, unit)	3
<b>5.2 Critical Thinking (e.g. Analytical, Decision Making, Problem-solving)</b>	B9: Collect samples from evidence	1
	E2: Conduct technical review A2: Develop testing plan E4: Address review issues (e.g. technical, administrative) G5: Participate in proficiency testing B3: Address case discrepancies	2
	H1: Review current literature K2: Participate in laboratory meetings (e.g. staff, QA, unit) F4: Provide testimony (e.g. depositions, court) K4: Respond to daily inquiries (e.g. email, phone calls) H2: Complete continuing education activities	3
	B4: Document evidence A3: Coordinate testing with other disciplines B5: Perform tests for blood A1: Review case information E1: Write draft report (e.g. serology and/or DNA) B6: Perform tests for semen B8: Perform microscopic examinations G4: Verify reagent quality E5: Communicate technically reviewed results (e.g. written, verbal) B7: Perform tests for miscellaneous body fluids	4



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Knowledge/Skill Domains	Tasks using domain knowledge & skills	Frequency & Importance Score Quartiles (Top to bottom, 1-4)
<b>5.3 Scientific method</b>	B9: Collect samples from evidence	1
	A2: Develop testing plan G5: Participate in proficiency testing B4: Document evidence B5: Perform tests for blood B6: Perform tests for semen B8: Perform microscopic examinations G4: Verify reagent quality F4: Provide testimony (e.g. depositions, court) B3: Address case discrepancies E5: Communicate technically reviewed results (e.g. written, verbal)	2
	H1: Review current literature E2: Conduct technical review B7: Perform tests for miscellaneous body fluids K2: Participate in laboratory meetings (e.g. staff, QA, unit) A1: Review case information E1: Write draft report (e.g. serology and/or DNA) E4: Address review issues (e.g. technical, administrative) H2: Complete continuing education activities	3
	A3: Coordinate testing with other disciplines G12: Perform contamination prevention procedures K4: Respond to daily inquiries (e.g. email, phone calls)	4
<b>6 Laboratory</b>		
<b>6.1 Good laboratory practice (e.g. safety, PPE)</b>	B9: Collect samples from evidence B5: Perform tests for blood G12: Perform contamination prevention procedures B6: Perform tests for semen	1
	G5: Participate in proficiency testing B7: Perform tests for miscellaneous body fluids	2
	B4: Document evidence G3: Prepare laboratory reagents G1: Prepare work area B10: Prepare samples for DNA processing B2: Inventory evidence items B8: Perform microscopic examinations	3
	B9: Collect samples from evidence G12: Perform contamination prevention procedures G5: Participate in proficiency testing G3: Prepare laboratory reagents B5: Perform tests for blood B6: Perform tests for semen B8: Perform microscopic examinations B7: Perform tests for miscellaneous body fluids B10: Prepare samples for DNA processing	4
<b>6.2 Laboratory Skills (e.g. pipetting, robotics)</b>	B9: Collect samples from evidence G12: Perform contamination prevention procedures	1
	G5: Participate in proficiency testing G3: Prepare laboratory reagents B5: Perform tests for blood B6: Perform tests for semen B8: Perform microscopic examinations	2
	B7: Perform tests for miscellaneous body fluids	3
	B10: Prepare samples for DNA processing	4



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Knowledge/Skill Domains	Tasks using domain knowledge & skills	Frequency & Importance Score Quartiles (Top to bottom, 1-4)
<b>7 Forensic Disciplines</b>		
<b>7.1 Other forensic disciplines</b>	B4: Document evidence	1
	A2: Develop testing plan	
	B9: Collect samples from evidence	
	A1: Review case information	2
	B3: Address case discrepancies	
	A3: Coordinate testing with other disciplines	
	K4: Respond to daily inquiries (e.g. email, phone calls)	
H1: Review current literature	3	
H2: Complete continuing education activities		
K2: Participate in laboratory meetings (e.g. staff, QA, unit)		
B1: Maintain chain of custody	4	
B8: Perform microscopic examinations		
<b>8 Legal</b>		
<b>8.1 Legal system</b>	B1: Maintain chain of custody	
	B4: Document evidence	1
	E6: Issue final report	
	F4: Provide testimony (e.g. depositions, court)	2
	A1: Review case information	3
	K4: Respond to daily inquiries (e.g. email, phone calls)	
H1: Review current literature	4	
K2: Participate in laboratory meetings (e.g. staff, QA, unit)		

**General College Textbooks covering**

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Chemistry  
 Biochemistry  
 Molecular Biology

**Forensic DNA Typing - Butler Series**

**Edition**

**Author**

	<b>Edition</b>	<b>Author</b>
Forensic DNA Typing	2nd	Butler, John M.
Fundamentals of Forensic DNA Typing	3rd	Butler, John M.
Advanced Topics in Forensic DNA Typing: Methodology	3rd	Butler, John M.

**Other Forensic Science Books**

**Edition**

**Author**

	<b>Edition</b>	<b>Author</b>
Criminalistics, An Introduction to Forensic Science	7th or higher	Saferstein, R.
Sourcebook in Forensic Serology, Immunology, and Biochemistry		Gaensslen, RE
Forensic Science Handbook, Volume I	2nd	Saferstein, R.
Forensic Science Handbook, Volume II	2nd	Saferstein, R.

**Guidance and Standards Documents (utilize most recent versions)**

**Edition**

**Author**

	<b>Edition</b>	<b>Author</b>
ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories		ANSI
ISO/IEC 17025: Forensic Science Testing and Calibration Laboratories Accreditation Requirements	AR 3125	ANAB
Quality Assurance Standards for Forensic DNA Testing Laboratories		FBI
Quality Assurance Standards for DNA Databasing Laboratories		FBI
The Biological Evidence Preservation Handbook: Best Practices for Evidence Handlers	NISTIR 7928	NIST
Interpretation Guidelines for Autosomal STR Typing by Forensic DNA Testing Laboratories		SWGAM
Contamination Prevention and Detection Guidelines for Forensic DNA Laboratories		SWGAM
Rules of Professional Conduct		American Board of Criminalistics