



**International Board of Forensic Engineering Services**  
**Forensic Engineer Scientist Screening Exam Blueprint**

Knowledge/ Skill Domains	Tasks using domain knowledge & skills	Test %
<b>1 Science &amp; Math</b>		<b>10%</b>
<b>1.1 Engineering Ethics</b>	G4: Participate in professional forums	
	G12: Perform contamination prevention procedures A2: Develop testing plan E4: Provide testimony (e.g. depositions, court) D5: Communicate technically reviewed results (e.g. written, verbal)	
	B4: Document evidence (e.g. photos, notes, sketches) G1: Review current literature D2: Conduct technical review J2: Participate in engineering meetings (e.g. staff, QA, unit) D1: Write draft report D4: Address review issues (e.g. technical, administrative) A3: Coordinate testing with other disciplines B3: Address case discrepancies J4: Respond to daily inquiries (e.g. email, phone calls) G2: Complete continuing education activities (e.g. conferences, workshops, webinars)	
<b>1.2 General Engineering Testing</b>	A1: Review case information	
	F8: Participate in preventative action process F1: Prepare work area E4: Provide testimony (e.g. depositions, court) D5: Communicate technically reviewed results (e.g. written, verbal)	
	H1: Review current literature D2: Conduct technical review D1: Write draft report (e.g. serology and/or DNA) D4: Address review issues (e.g. technical, administrative) F3: Verify calibration of lab equipment B3: Address case discrepancies G2: Complete continuing education activities J2: Participate in client/staff meetings (e.g. staff, QA, unit)	
<b>1.6 Math</b>	B4: Document evidence A3: Coordinate testing with other disciplines F1: Prepare work area A1: Review case information A2: Develop testing plan J4: Respond to daily inquiries (e.g. email, phone calls)	
	F9: Participate in performance review process E5: Communicate technically reviewed results (e.g. written, verbal) E4: Provide testimony (e.g. depositions, court)	
	G1: Review current literature D2: Conduct technical review G2: Complete continuing education activities J2: Participate in client meetings (e.g. staff, QA, unit)	
<b>2 Quality Assurance/Quality Control</b>		<b>20%</b>
<b>2.1 ISO 17025 / ANAB</b>	D6: Issue final report A2: Develop testing plan G5: Receive professional training (e.g. programs, CEUs) F5: Review laboratory manuals (e.g. evaluate, revise) E4: Provide testimony (e.g. depositions, court) G5: Receive professional training (e.g. programs, CEUs)	
<b>2.2 QAS</b>	A2: Develop testing plan F4: Provide testimony (e.g. depositions, court) A2: Develop testing plan	
<b>2.3 Daulbert Challenge</b>	D4: Address review issues (e.g. technical, administrative) D2: Conduct technical review  B4: Document evidence E4: Provide testimony (e.g. depositions, court)	
<b>3 Computer</b>		<b>10%</b>
	B4: Document evidence  B1: Maintain chain of custody G4: Participate in professional forums (e.g. CEUs, PDHs)	

3.1 Computer	D6: Issue final report D5: Communicate technically written reviewed results (e.g. written/verbal) D1: Write draft report (e.g. serology and/or DNA) J4: Respond to daily inquiries (e.g. email, phone calls) G1: Review current literature, peer-reviewed literature G2: Complete continuing education activities	
<b>4 Communication</b>		10%
4.1 Communication (e.g. oral, written, presentation, listening, interpersonal)	B4: Document evidence  D4: Address review issues (e.g. technical, administrative) D5: Communicate technically reviewed results (e.g. written, verbal) J4: Respond to daily inquiries (e.g. email, phone calls) D1: Write draft report J2: Participate in laboratory meetings (e.g. staff, QA, unit) E4: Provide testimony (e.g. depositions, court) B3: Address case discrepancies H2: Complete continuing education activities A1: Review case information F9: Participate in performance review process D2: Conduct technical review D3: Conduct administrative review B1: Maintain chain of custody A3: Coordinate testing with other disciplines D6: Issue final report G1: Review current literature	
<b>5 Process</b>		10%
5.1 Organizational (e.g. Time Management, Multi-Tasking)	A2: Develop testing plan D4: Address review issues (e.g. technical, administrative) F9: Participate in performance review process B4: Document evidence	
5.2 Critical Thinking (e.g. Analytical, Decision Making, Problem-solving)	D2: Conduct technical review A2: Develop testing plan D4: Address review issues (e.g. technical, administrative) F9: Participate in performance review process B3: Address case discrepancies G1: Review current literature J2: Participate in laboratory meetings (e.g. staff, QA, unit) D4: Provide testimony (e.g. depositions, court) J4: Respond to daily inquiries (e.g. email, phone calls) 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) E5: Communicate technically reviewed results (e.g. written, verbal)	
5.3 Scientific method	A2: Develop testing plan G5: Receive professional training (e.g. programs, CEUs) B4: Document evidence A2: Develop testing plan E4: Provide testimony (e.g. depositions, court) B3: Address case discrepancies D5: Communicate technically reviewed results (e.g. written, verbal) G1: Review current literature D2: Conduct technical review J2: Participate in laboratory meetings (e.g. staff, QA, unit) A1: Review case information D1: Write draft report (e.g. serology and/or DNA) D4: Address review issues (e.g. technical, administrative) G2: Complete continuing education activities (e.g. conferences, workshops, webinars) A3: Coordinate testing with other disciplines J4: Respond to daily inquiries (e.g. email, phone calls)	
<b>6 Forensic Disciplines</b>		10%
6.1 Other forensic disciplines	B4: Document evidence B1: Maintain chain of custody G4: Participate in professional forums (e.g. CEUs, PDHs) A3: Coordinate testing with other disciplines J4: Respond to daily inquiries (e.g. email, phone calls) H1: Review current literature H2: Complete continuing education activities J2: Participate in laboratory meetings (e.g. staff, QA, unit) B1: Maintain chain of custody B8: Perform specific examinations	
<b>7 Legal</b>		15%

<b>7.1 Legal system</b>	D4: Address review issues (e.g. technical, administrative) D5: Communicate technically reviewed results (e.g. written, verbal) J4: Respond to daily inquiries (e.g. email, phone calls) D1: Write draft report J2: Participate in laboratory meetings (e.g. staff, QA, unit) E4: Provide testimony (e.g. depositions, court) B3: Address case discrepancies
	H2: Complete continuing education activities A1: Review case information F9: Participate in performance review process D2: Conduct technical review D3: Conduct administrative review
	B1: Maintain chain of custody A3: Coordinate testing with other disciplines D6: Issue final report G1: Review current literature
	K4: Respond to daily inquiries (e.g. email, phone calls) H1: Review current literature
	K2: Participate in laboratory meetings (e.g. staff, QA, unit)

**8 Laboratory or Site Visit**

15%

<b>8.1 Collaboration and evidence handling</b>	A2: Develop testing plan D4: Address review issues (e.g. technical, administrative) F9: Participate in performance review process
	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) J2: Participate in laboratory meetings (e.g. staff, QA, unit)
<b>8.2 PHR- Process Hazards Review and Site Safety</b>	G1: Review current literature J2: Participate in laboratory meetings (e.g. staff, QA, unit) D4: Provide testimony (e.g. depositions, court) J4: Respond to daily inquiries (e.g. email, phone calls) G2: Complete continuing education activities
	B4: Document evidence A3: Coordinate testing with other disciplines A1: Review case information E1: Write draft report (e.g. serology and/or DNA) E5: Communicate technically reviewed results (e.g. written, verbal)