

# Foundational Knowledge Exam Blueprint

Knowledge/Skill Domains	Tasks using domain knowledge & skills	F&I Quartiles (Top to bottom, 1-4)	Test %	# Items (rounded)
<b>1 Science &amp; Math</b>				
<b>1.5 Statistics</b>	A7 Interpret analytical data B10 Determine uncertainty of measurement D5 Prepare for court D1 Provide expert testimony C5 Read scientific literature	3	17%	13
	A5 Conduct analyses B6 Perform validations B3 Perform case file review B8 Maintain instruments A9 Compare to individual characteristic database(s) D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests E3 Calibrate field instruments	4	2.7%	2.0
<b>1.6 Math</b>	A5 Conduct analyses A7 Interpret analytical data	2	4.2%	3.0
	B7 Analyze proficiency tests B10 Determine uncertainty of measurement B3 Perform case file review B8 Maintain instruments D5 Prepare for court B6 Perform validations D1 Provide expert testimony C5 Read scientific literature	3		
	B9 Conduct verification checks D3-4 Consult with attorneys/provide expert opinion (e.g. non-testim E3 Calibrate field instruments G1 Inventory supplies E6 Respond to scenes	4		
<b>1.7 Science education/training</b>	A5 Conduct analyses A7 Interpret analytical data	1	9.9%	8.0
	A4 Assess evidence B12 Employ laboratory safety B8 Maintain instruments B9 Conduct verification checks D1 Provide expert testimony C5 Read scientific literature	2		
	D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training B3 Perform case file review D5 Prepare for court A9 Compare to individual characteristic database(s) E4 Consult with law enforcement agencies B10 Determine uncertainty of measurement B6 Perform validations	3		
	E5 Support field safety A6 Generate case file documentation A1 Prepare workspace E6 Respond to scenes E3 Calibrate field instruments	4		



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<b>2 Quality Assurance/Quality Control</b>			<b>15%</b>	<b>11</b>			
<b>2.1 Accreditation Standards</b>	A3 Maintain chain of custody A5 Conduct analyses A6 Generate case file documentation	1	8.7%	7.0			
	A7 Interpret analytical data A8 Prepare reports B3 Perform case file review	2					
	B7 Analyze proficiency tests B1 Maintain controlled documents D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B10 Determine uncertainty of measurement B6 Perform validations B9 Conduct verification checks D1 Provide expert testimony	3					
	E4 Consult with law enforcement agencies A4 Assess evidence B12 Employ laboratory safety B13 Support laboratory security B4 Maintain testimony records B8 Maintain instruments D5 Prepare for court A9 Compare to individual characteristic database(s) C1-3 Obtain continuing education credits, external/internal training D6 Request testimony feedback E6 Respond to scenes E3 Calibrate field instruments	4					
	A5 Conduct analyses A6 Generate case file documentation	1 2					
	B7 Analyze proficiency tests B3 Perform case file review B9 Conduct verification checks	3					
	A7 Interpret analytical data A8 Prepare reports D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) E4 Consult with law enforcement agencies D5 Prepare for court	3					
	A3 Maintain chain of custody A4 Assess evidence D2 Provide Discovery documents B13 Support laboratory security E6 Respond to scenes A2 Manage case assignments D1 Provide expert testimony B1 Maintain controlled documents B6 Perform validations E3 Calibrate field instruments	4					
	<b>2.4 Codes of Ethics</b>				<b>6.0%</b>	<b>4.0</b>	

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<b>3 Computer</b>			<b>9%</b>	<b>7</b>
<b>3.1 Computer &amp; Software Programs</b>	A7 Interpret analytical data A9 Compare to individual characteristic database(s) B13 Support laboratory security	2	5.8%	4.0
	A3 Maintain chain of custody A5 Conduct analyses A6 Generate case file documentation A8 Prepare reports A2 Manage case assignments	3		
<b>3.3 Forensic Databases</b>	B7 Analyze proficiency tests B1 Maintain controlled documents B6 Perform validations G10 Process communications (e.g. email, phone calls) B3 Perform case file review B8 Maintain instruments D5 Prepare for court B9 Conduct verification checks D1 Provide expert testimony D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) D2 Provide Discovery documents E3 Calibrate field instruments B10 Determine uncertainty of measurement E6 Respond to scenes	4	3.5%	3.0
	A9 Compare to individual characteristic database(s) A6 Generate case file documentation A4 Assess evidence A7 Interpret analytical data B13 Support laboratory security B9 Conduct verification checks D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) A5 Conduct analyses B3 Perform case file review A2 Manage case assignments D1 Provide expert testimony E4 Consult with law enforcement agencies E6 Respond to scenes	4		
<b>4 Communication</b>			<b>13%</b>	<b>10</b>
<b>4.1 Communication (e.g. oral, written, presentation, listening, interpersonal)</b>	A6 Generate case file documentation A8 Prepare reports	1	13.4%	10.0
	A3 Maintain chain of custody G10 Process communications (e.g. email, phone calls) B12 Employ laboratory safety B3 Perform case file review D5 Prepare for court A2 Manage case assignments D1 Provide expert testimony C5 Read scientific literature B13 Support laboratory security	2		
	D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) E4 Consult with law enforcement agencies A5 Conduct analyses B9 Conduct verification checks A4 Assess evidence A7 Interpret analytical data D2 Provide Discovery documents A9 Compare to individual characteristic database(s) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training D6 Request testimony feedback E5 Support field safety B8 Maintain instruments B6 Perform validations	3		
	E6 Respond to scenes G1 Inventory supplies B10 Determine uncertainty of measurement G3 Coordinate subpoenas B1 Maintain controlled documents E3 Calibrate field instruments	4		

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<b>5 Process</b>			<b>21%</b>	<b>16.0</b>
<b>5.1 Organizational</b>	A5 Conduct analyses A6 Generate case file documentation A2 Manage case assignments	2	7.6%	6.0
	B3 Perform case file review D5 Prepare for court A8 Prepare reports A1 Prepare workspace B7 Analyze proficiency tests G10 Process communications (e.g. email, phone calls) D2 Provide Discovery documents B8 Maintain instruments B6 Perform validations G1 Inventory supplies	3		
<b>5.1 Organizational</b>	G3 Coordinate subpoenas E6 Respond to scenes A3 Maintain chain of custody A4 Assess evidence A7 Interpret analytical data B10 Determine uncertainty of measurement B9 Conduct verification checks D1 Provide expert testimony C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) E4 Consult with law enforcement agencies C1-3 Obtain continuing education credits, external/internal training B4 Maintain testimony records E3 Calibrate field instruments	4	12.9%	10.0
	A5 Conduct analyses A4 Assess evidence A7 Interpret analytical data	1		
<b>5.2 Critical thinking (e.g. Analytical, problem solving, trouble-shooting, investigative, Attention to Detail)</b>	A6 Generate case file documentation A8 Prepare reports B3 Perform case file review B8 Maintain instruments B9 Conduct verification checks D1 Provide expert testimony C5 Read scientific literature	2	12.9%	10.0
	B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training A3 Maintain chain of custody D5 Prepare for court A2 Manage case assignments A9 Compare to individual characteristic database(s) B12 Employ laboratory safety B13 Support laboratory security D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B10 Determine uncertainty of measurement D2 Provide Discovery documents B6 Perform validations	3		
	E4 Consult with law enforcement agencies E5 Support field safety E6 Respond to scenes A1 Prepare workspace E3 Calibrate field instruments G10 Process communications (e.g. email, phone calls) B1 Maintain controlled documents G1 Inventory supplies	4		

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<b>6 Laboratory</b>			<b>18%</b>	<b>13</b>
<b>6.1 Basic laboratory safety</b>	A5 Conduct analyses B12 Employ laboratory safety	1	4.5%	3.0
	A4 Assess evidence A1 Prepare workspace	2		
	B7 Analyze proficiency tests E5 Support field safety	3		
	G1 Inventory supplies E6 Respond to scenes B8 Maintain instruments B6 Perform validations D1 Provide expert testimony E3 Calibrate field instruments	4		
	A5 Conduct analyses B12 Employ laboratory safety A1 Prepare workspace	2		
	B7 Analyze proficiency tests B8 Maintain instruments A4 Assess evidence C5 Read scientific literature B10 Determine uncertainty of measurement B6 Perform validations B9 Conduct verification checks	3		
	E6 Respond to scenes E5 Support field safety B3 Perform case file review D1 Provide expert testimony D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) C1-3 Obtain continuing education credits, external/internal training E3 Calibrate field instruments	4		
	A5 Conduct analyses A7 Interpret analytical data	1		
	A4 Assess evidence B12 Employ laboratory safety B8 Maintain instruments	2		
<b>6.2 Basic laboratory skills</b>	B7 Analyze proficiency tests A1 Prepare workspace B10 Determine uncertainty of measurement B3 Perform case file review B6 Perform validations B9 Conduct verification checks D1 Provide expert testimony	3		
	E4 Consult with law enforcement agencies E5 Support field safety E6 Respond to scenes E3 Calibrate field instruments G1 Inventory supplies B13 Support laboratory security D5 Prepare for court A2 Manage case assignments C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) C1-3 Obtain continuing education credits, external/internal training	4		
	A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety B8 Maintain instruments	2		
	B7 Analyze proficiency tests A1 Prepare workspace B10 Determine uncertainty of measurement B3 Perform case file review B6 Perform validations B9 Conduct verification checks D1 Provide expert testimony	3		
	E4 Consult with law enforcement agencies E5 Support field safety E6 Respond to scenes E3 Calibrate field instruments G1 Inventory supplies B13 Support laboratory security D5 Prepare for court A2 Manage case assignments C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) C1-3 Obtain continuing education credits, external/internal training	4		
	A5 Conduct analyses A7 Interpret analytical data	1		
	A4 Assess evidence B12 Employ laboratory safety B8 Maintain instruments	2		
	B7 Analyze proficiency tests A1 Prepare workspace B10 Determine uncertainty of measurement B3 Perform case file review B6 Perform validations B9 Conduct verification checks D1 Provide expert testimony	3		
	E4 Consult with law enforcement agencies E5 Support field safety E6 Respond to scenes E3 Calibrate field instruments G1 Inventory supplies B13 Support laboratory security D5 Prepare for court A2 Manage case assignments C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) C1-3 Obtain continuing education credits, external/internal training	4		
	A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety	2		
	A2 Manage case assignments E4 Consult with law enforcement agencies	3		
	<b>6.3 Lab/scene equipment, (e.g. Instrumentation, photography)</b>	E6 Respond to scenes A1 Prepare workspace E5 Support field safety B3 Perform case file review D1 Provide expert testimony C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training B6 Perform validations	4	
A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety		2		
A2 Manage case assignments E4 Consult with law enforcement agencies		3		
E6 Respond to scenes A1 Prepare workspace E5 Support field safety B3 Perform case file review D1 Provide expert testimony C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training B6 Perform validations		4		
A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety		2		
A2 Manage case assignments E4 Consult with law enforcement agencies		3		
E6 Respond to scenes A1 Prepare workspace E5 Support field safety B3 Perform case file review D1 Provide expert testimony C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training B6 Perform validations		4		
A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety		2		
A2 Manage case assignments E4 Consult with law enforcement agencies		3		
E6 Respond to scenes A1 Prepare workspace E5 Support field safety B3 Perform case file review D1 Provide expert testimony C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training B6 Perform validations		4		
A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety		2		
A2 Manage case assignments E4 Consult with law enforcement agencies		3		
<b>7 Forensic Disciplines</b>			<b>4%</b>	<b>3.1</b>
<b>7.1 All forensic disciplines (e.g contemporary, historical)</b>	A5 Conduct analyses A4 Assess evidence B12 Employ laboratory safety	2	4.1%	3.0
	A2 Manage case assignments E4 Consult with law enforcement agencies	3		
	E6 Respond to scenes A1 Prepare workspace E5 Support field safety B3 Perform case file review D1 Provide expert testimony C5 Read scientific literature D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial) B7 Analyze proficiency tests C1-3 Obtain continuing education credits, external/internal training B6 Perform validations	4		

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<b>8 Legal</b>			<b>3%</b>	<b>2.3</b>
<b>8.1 Legal system (e.g. Courtroom Etiquette, Law)</b>	A3 Maintain chain of custody	1	3.1%	2.0
	D1 Provide expert testimony	2		
	D2 Provide Discovery documents	3		
	B10 Determine uncertainty of measurement			
	E6 Respond to scenes	4		
	G3 Coordinate subpoenas			
	D5 Prepare for court			
	A2 Manage case assignments			
	D3-4 Consult with attorneys/provide expert opinion (e.g. non-testimonial)			
	E4 Consult with law enforcement agencies			
			<b>100%</b>	<b>75.5</b>