


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 Accredited to ISO/IEC 17025:2017	Chief Constable of Essex Police Issue No: 040 Issue date: 28 May 2025	
	Force Forensic Laboratory Essex Police Headquarters PO Box 2 Springfield Chelmsford CM2 6DA	Contact: Robin Mitchell Tel: +44 (0)1622 690690 E-Mail: robin.mitchell@kent.police.uk Website: www.kent.police.uk

Testing performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Delivery of the forensic services, as listed, through the Force Forensic Laboratory in collaboration with Kent Police

Location details	Activity	Location code
Address Essex Police Headquarters Sandford Road Chelmsford Essex CM1 6DN Local contact Contact: Tamzin Squirrell E-Mail: Tamzin.Squirrell@essex.police.uk Local contact Contact: Andrew Marbrow E-Mail: Andrew.Marbrow@essex.police.uk Local contact Contact: Paul Rowe E-Mail: Paul.Rowe@essex.police.uk	Forensic Analysis: DNA Recovery Digital Forensics Fingerprint Comparison	A
Address Durham House Durham Road Laindon Basildon Essex SS15 6PH Local contact Contact: Madeline Bayer E-Mail: madeline.bayer@essex.police.uk Local contact Contact: Paul Rowe E-Mail: Paul.Rowe@essex.police.uk	Forensic Analysis: Fingerprint Enhancement Fingerprint Comparison	B
Address Ashford Police Station Church Road Ashford Kent TN23 1BT Local contact Contact: Chris Elmore E-Mail: Christopher.elmore@kent.police.uk Tel: +44 (0)1622 654733	Forensic Analysis: Digital Forensics	H



7888

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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES Any Material	<u>Forensic Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice in relation to the Forensic Activities listed below.	A, B, H
	<u>Forensic Analysis</u>		
	Searching for: - Blood	Documented In-House Methods (SOPDNA004) using: - visual examination - white light - lower power microscopy - chemical testing (see below)	A
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials: - Blood - Cellular Material	Documented In-House Methods using: - Cutting (SOPDNA001b) - swabs and swabbing (SOPDNA001a, 002)	A
Blood	Presumptive testing for Blood via detection of: - Peroxidase	Documented In-House Methods (SOPDNA005) using: - KM (Kastle Meyer)	A



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MARKS AND IMPRESSIONS	<u>Forensic Analysis</u> (cont'd)		
Fingermarks Any material which is capable of retaining friction ridge marks	Enhancement of fingermarks, palm marks and plantar marks	Documented In-House Methods using chemical and physical enhancement techniques (method numbers provided in brackets): <ul style="list-style-type: none">- Acid Dye Treatments (water/ethanol/acetic acid formulation) (SOPCEL007): Acid Black 1 Acid Violet 17 Acid Yellow 7- Cyanoacrylate (CNA) Fuming (SOPCEL002)- Basic Yellow 40 (BY40) (ethanolic) (SOPCEL009)	B
Fingermarks Any material which is capable of retaining friction ridge marks	Enhancement of fingermarks, palm marks and plantar marks	Documented In-House Methods using chemical and physical enhancement techniques (method numbers provided in brackets) <ul style="list-style-type: none">- Ninhydrin (SOPCEL004)- Powder Suspensions (SOPCEL006): Iron Oxide based – black Carbon based - black, Titanium dioxide based - white- Powdering Techniques (SOPCEL008): black granular powder aluminium flake powder black magnetic powder- Physical Developer (SOPCEL005)- 1,2 – Indandione (SOPCEL049)	B



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<p>MARKS AND IMPRESSIONS (cont'd)</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks (cont'd)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Enhancement of fingermarks, palm marks and plantar marks (cont'd)</p>	<p>Documented In-House Methods using visual and lighting enhancement techniques</p> <ul style="list-style-type: none"> - Visual examination - White Light (SOPCEL017) - High Intensity Light Sources (SOPCEL025 / 026 / 027) <ul style="list-style-type: none"> - Crime-Lite 82S UV ($\lambda=350-380\text{nm}$) - Blue ($\lambda=420-470\text{nm}$) - Green ($\lambda=480-560\text{nm}$) - Laser Green ($\lambda=532\text{nm}$) - Crimelite ML Blue ($\lambda=420-470\text{nm}$) <p>Documented In-House Methods for imaging / digital capture (SOPCEL030 / 046 / 047)</p> <ul style="list-style-type: none"> - DCS5 (SOPCEL030) - Digital SLR (SOPCEL046 / 047) 	<p align="center">B</p>
<p>Developed fingerprint marks</p>	<p>Determination of the presence of friction ridge characteristics for the purpose of subsequent comparison</p>	<p>Documented In-House methods using visual examination (SOPCEL018)</p>	<p align="center">B</p>



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MARKS AND IMPRESSIONS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
FRICITION RIDGE DETAIL			
Finger and Palm (Non-Cadaver)	Analysis, comparison, and evaluation of Friction Ridge Detail as outlined below for the purpose of: <ul style="list-style-type: none">- Criminal Investigation- Elimination Databases		A, B
<u>Marks</u> <ul style="list-style-type: none">- CSI/FEL Recovered Lifts from physical scenes- CSI/FEL Photographs of marks from physical scene- Fingerprint Enhancement Laboratory Recovered Lifts from physical items- Fingerprint Enhancement Laboratory Photographs of marks from Chem lab from physical items- Fingerprint Enhancement Laboratory Digital images of marks from Chem lab from physical items	<u>Comparison with Ten Prints</u> <ul style="list-style-type: none">- Ink- Powder- Livescan	Documented in house procedures using visual manual techniques: <ul style="list-style-type: none">- Fingerprint glass- Reference collections- Comparators (optical)- High Quality Printer	A, B
<u>Ten Prints</u> <ul style="list-style-type: none">- Ink- Powder- Livescan	<u>Comparison with Marks</u> <ul style="list-style-type: none">- CSI/FEL Recovered Lifts from physical scenes- CSI/FEL Photographs of marks from physical scenes- Fingerprint Enhancement Laboratory Recovered Lifts from physical items- Fingerprint Enhancement Laboratory photographs of marks from physical exhibits- Fingerprint Enhancement Laboratory digital images of marks from physical exhibits	Documented in house procedures using visual manual techniques: <ul style="list-style-type: none">- Fingerprint glass- Reference collections- Comparators (optical)- High Quality Printer	A, B



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MARKS AND IMPRESSIONS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
FRICITION RIDGE DETAIL (cont'd)			
Finger and Palm (Non-Cadaver)	Assessment, enhancement, and scaling of digital 3D Friction Ridge Detail (finger and palms) to facilitate the subsequent manual analysis, comparisons, and evaluation of Friction Ridge Detail with known electronic/ink ten prints	Documented in-house method (SOPHUB006C) and the following equipment: <ul style="list-style-type: none"> - PaintShop Pro - Databases - High Quality Printer - Computer Screen 	A, B
Plantar (Non-Cadaver)	Analysis, comparison, and evaluation of Friction Ridge Detail as outlined below for the purpose of: <ul style="list-style-type: none"> - Criminal Investigation - Elimination Databases 		A, B
<u>Marks</u> <ul style="list-style-type: none"> - CSI/FEL Recovered Lifts from physical scenes - CSI/FEL Photographs of marks from physical scene - Fingerprint Enhancement Laboratory Recovered Lifts from physical items - Fingerprint Enhancement Laboratory Photographs of marks from Chem lab from physical items 	<u>Comparison with Reference Prints</u> <ul style="list-style-type: none"> - Ink - Powder 	Documented in house procedures using visual manual techniques: <ul style="list-style-type: none"> - Fingerprint glass - Reference collections - Comparators (optical) - Computer screen - High Quality Printer 	A, B
FRICITION RIDGE DETAIL			
Finger, Palm and Plantar (Non-Cadaver)	<u>Opinion and Interpretation</u> The evaluation of the significance of any matching and non-matching features between sources of friction ridge detail as outlined in the above scope of accreditation.	Documented In-House methods using <ul style="list-style-type: none"> - Personal experience - database 	A, B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DIGITAL DEVICES AND DATA	<u>Forensic Analysis</u> (cont'd)		
Computers			
Computers and digital storage devices <ul style="list-style-type: none"> - Windows/Linux-based computers 	Bootable capture and preservation of data.	Documented in-house method(s) (SOPDFU002, 044, 062) using <ul style="list-style-type: none"> - Paladin - Digital Evidence Investigator - FTK Imager Lite 	A, H
Computers and digital storage devices <ul style="list-style-type: none"> - Apple Mac-based computers 	Bootable capture and preservation of data.	Documented in-house method(s) (SOPDFU002, 044, 062) using <ul style="list-style-type: none"> - Digital Collector 	A,H
Computers and digital storage devices <ul style="list-style-type: none"> - Hard disk drives - Solid state drives - Memory cards - USB flash drives 	Capture and preservation of data from storage devices	Documented in-house method(s) (SOPDFU002, 25) using: <ul style="list-style-type: none"> - FTK Imager - EnCase - X-Ways Forensics - Tableau TD3 - Tableau TX1 - Tableau T4 - Tableau T7u - Tableau T8 (inc R2) - Tableau T8u - Tableau T35u - Tableau T35es (inc R2) - ACES LE Software writeblocker 	A, H
Computers and digital storage devices <ul style="list-style-type: none"> - M.2 SSD 	Capture and preservation of data from storage devices	Documented in-house method(s) (SOPDFU002, 025) using: <ul style="list-style-type: none"> - FTK Imager - EnCase - X-Ways Forensics - Tableau TD3 - Tableau TX-1 - T7u 	H



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DIGITAL DEVICES AND DATA (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Computers (cont'd)			
Data associated with the following: - Microsoft Windows - macOS	Processing of data	Documented in-house method(s) (SOPDFU060, AXIOM Guidance,) using: - AXIOM	A, H
Data associated with the following: - Microsoft Windows	Processing of data	Documented in-house method(s) (SOPDFU060, Nevis Guidance) using: - Nevis	A
Data associated with the following: - Microsoft Windows - macOS	Processing of data	Documented in-house method(s) (SOPDFU060, X-Ways Guidance) using - X-Ways Forensics	A, H
Data associated with the following: - macOS	Processing of data	Documented in-house method(s) (SOPDFU060, Cellebrite Inspector Guidance) using - Inspector	A
Data associated with the following operating systems: - Microsoft Windows - macOS	Automated processing of data	Documented in-house method (SOPDFU060, AUTOMATE Guidance) using: - AUTOMATE with AXIOM	H
Data associated with the following: - Microsoft Windows - macOS	Analysis of data - Keyword Analysis - File Data Filtering - Database Analysis	Documented in-house method(s) (SOPDFU060, AXIOM Guidance, X-Ways Guidance) using: - AXIOM - X-Ways Forensics	A, H



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DIGITAL DEVICES AND DATA (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Computers (cont'd)			
Data associated with the following: <ul style="list-style-type: none">- Microsoft Windows- MacOS	Analysis of data <ul style="list-style-type: none">- Manual bookmarking- Date/Timelining- Application Analysis	Documented in-house method(s) (SOPDFU060, AXIOM Guidance, X-Ways Guidance) using: <ul style="list-style-type: none">- X-Ways- AXIOM	H
Data associated with the following: <ul style="list-style-type: none">- macOS	Analysis of data <ul style="list-style-type: none">- Keyword Analysis- File Data Filtering- Database Analysis	Documented in-house method(s) (SOPDFU060, Cellebrite Inspector Guidance) using <ul style="list-style-type: none">- Inspector	A
Computers <ul style="list-style-type: none">- Hard disk drives- Solid state drives- Memory cards- USB flash drives	Screening of digital media for the following: <ul style="list-style-type: none">- Digital Images- Digital video- Emails- Documents- Web history- Keywords	Documented in-house method(s) (SOPDFU002, SOPDFU064) using <ul style="list-style-type: none">- Digital Evidence Investigator (Windows only)	A, H
END			