


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 7569 Accredited to ISO/IEC 17025:2017	Chief Constable of South Wales Police Issue No: 039 Issue date: 01 April 2025	
	Joint Scientific Investigation Unit South Wales Police HQ Cowbridge Road Bridgend CF31 3SU United Kingdom	Contact: Mr Steven Robinson Tel: +44 (0)1656 655 555 E-Mail: Steven.Robinson@south-wales.police.uk
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Delivery of the forensic services, listed below, through the Joint Scientific Investigation Unit in collaboration with South Wales Police and Gwent Police

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS and TISSUES Any material	<u>Forensic Testing</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice in relation to the Forensic Activities listed below
	<u>Forensic Analysis</u>	
	Searching for: <ul style="list-style-type: none">- Blood	Document in house methods DNACR/SOP/17 using: <ul style="list-style-type: none">- Visual examination- Low power microscopy- chemical testing (see below)
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials: <ul style="list-style-type: none">- Blood- Cellular material	Documented in house methods DNACR/SOP/06 using <ul style="list-style-type: none">- Swabs and swabbing- Minitaping- Cutting
	Presumptive testing for Blood via detection of: <ul style="list-style-type: none">- Enzyme Activity (Peroxidase)	Documented in house method DNACR/SOP/17 using <ul style="list-style-type: none">- Visual Examination- KM (Kastle Meyer)



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DRUGS (and materials suspected of containing drugs)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</p> <p>Identification of Cannabis, cannabis resin and cannabis products</p> <p>Identification of:</p> <ul style="list-style-type: none">- Amphetamine- Cocaine- Diamorphine (Heroin)- Methylenedioxy amphetamine (MDA)- Methylenedioxymethyl amphetamine (MDMA)- Methylenedioxyethyl amphetamine (MDEA)- Ketamine- Methadone <p>Quantification of :</p> <ul style="list-style-type: none">- Amphetamine- Cocaine- Diamorphine (Heroin)	<p>Documented in house method (DRUG/SOP/01 & DRUG/SOP/05) using:</p> <ul style="list-style-type: none">- Microscopy- GC-MS <p>Documented in house method (DRUG/SOP/02 & DRUG/SOP/05) using</p> <ul style="list-style-type: none">- Spot Tests (Marquis Reagent and Cobalt Thiocyanate Reagent)- GC-MS <p>Documented in house method (DRUG/SOP/06) using</p> <ul style="list-style-type: none">- HPLC-DA



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<p>MARKS AND IMPRESSIONS</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Enhancement of fingermarks and palm marks</p>	<p>Documented In-House Methods using chemical and physical enhancement techniques (method numbers provided in brackets):</p> <ul style="list-style-type: none"> - Cyanoacrylate (CNA) Fuming (FDU-SOP-02) - Basic Yellow 40 (BY40) Ethanol and aqueous formulations (FDU-SOP-04) - 1,8-Diazafluoren-9-one (DFO) (FDU-SOP-05) - Ninhydrin (FDU-SOP-03) - Powdering Techniques (FDU-SOP-14) black granular powder aluminium flake powder black magnetic powder - Powder suspensions (FDU-SOP-13): Iron oxide based - black Carbon based -black Titanium Dioxide based - white <p>Documented In-House methods using visual and lighting techniques (FDU-SOP-11)</p> <ul style="list-style-type: none"> - Visual examination - White light and filtered sources - High intensity light sources: Crimelite ML: Blue (λ =430-470nm), Green (λ =480-560nm) CrimeLite 8x4: Blue (λ =476nm) Green (λ =510nm) <p>Documented In-House Methods for imaging / digital capture</p> <ul style="list-style-type: none"> - DCS5 (FDU-SOP-06)
<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 (FDU-SOP-11)</p>



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



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<p>FRICITION RIDGE DETAIL (cont'd)</p> <p>Finger and Palm (Non-Cadaver) (cont'd)</p> <p>Ten Prints</p> <ul style="list-style-type: none">- Ink- Powder- Livescan	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Analysis, comparison, and evaluation of Friction Ridge Detail as outlined below for the purpose of:</p> <ul style="list-style-type: none">- Criminal Investigation- Elimination Databases <p>Comparison with Marks</p> <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 Chem lab from physical items- CSI/FEL Digital images of marks from physical Scene <p><u>Opinion and Interpretation</u></p> <p>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.</p>	<p>Documented in house procedures using visual manual techniques:</p> <ul style="list-style-type: none">- Fingerprint glass- Reference collections- Comparators (optical/digital)- Mark enhancement software<ul style="list-style-type: none">o FISHo AGX- Digital workflow- High Quality Printer <p>Documented In-House methods using</p> <ul style="list-style-type: none">- Personal experience- database



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FOOTWEAR	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Coding of scene marks</p> <p>Coding of Custody prints taken from suspect footwear using gross features</p> <p>Screening of suspect footwear by pattern type and size</p> <p>Enhancement of footwear marks recovered from scenes</p> <p>Production of test marks from suspect footwear</p> <p>Assessment, comparison and evaluation of footwear marks with scene marks</p> <p><u>Opinion and Interpretation</u> The evaluation of the significance of any matching and non-matching features between the footwear scene impression and reference/control footwear marks</p>	<p>Documented in house method (FIU/SOP/02) – including use of National Footwear Reference Collection (NFRC)</p> <p>Documented in house method (FIU/SOP/01 & FIU/SOP/14) – including use of National Footwear Reference Collection (NFRC)</p> <p>Documented in house method (FIU/SOP/03 & FIU/SOP/10) – includes the use of test prints, enhancement techniques, visual comparison, low power microscope</p> <p>Documented in house method (FIU/SOP/04, 06 & 10) using</p> <ul style="list-style-type: none"> - powders - ESLA - ESDA - gel lifting - gel scanning - digital capture photography <p>Documented in house method (FIU/SOP/03) using</p> <ul style="list-style-type: none"> - Dynamic oil and magnetic powder on paper - Static powdering - 3-D test impressions (various media including Bio-foam) using dental stone casting <p>Documented in house method (FIU/SOP/03) using</p> <ul style="list-style-type: none"> - Visual comparison - Dimensional measurement <p>Documented In-House method (FIU/SOP/03) using</p> <ul style="list-style-type: none"> - Personal experience - database



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DIGITAL DEVICES AND DATA	<u>Forensic Analysis</u> (cont'd)	
Digital Video Recorders	Capture and preservation of data Export video (exporting files using CCTV system, copying via analogue or digital output) -	Documented in house method (IMAGING/SOP/04) using: - Manual interaction with system and / or device - USB flash drives Digital Versatile Discs -
Digital Storage Devices - Memory cards - USB flash drives - Compact discs - Digital versatile discs Digital Video including CCTV footage Compact discs Digital versatile discs USB flash drives Memory cards	Capture and preservation of data - Transfer/Recovery of data Digital video conversion (<i>viewing and presentation purposes</i>)	Documented in house method (IMAGING/SOP/06) using: - Premiere - FFmpeg - Camtasia - A range of CCTV proprietary software players Documented In-house methods (IMG/SOP/05 and IMG/SOP/06) : Adobe Premier FFMPEG Proprietary Software TechSmith Camtasia
Digital Images/Video	Processing of digital images/video Conversion of digital images/video - Rewrapping - Transcoding - Screen capturing	Documented in house method (IMAGING/SOP/06): using: - FFmpeg - A range of CCTV proprietary software players - Camtasia



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FIREARMS (cont'd)	<u>Forensic Analysis</u> (cont'd)	
Ammunition	Ammunition and component identification and legal classification	Documented In house method (FFE/SOP/03 & FFE/SOP/10) using: <ul style="list-style-type: none">- Weighing- length measurement- use of known samples or standard reference data.
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968)	Documented In house method (FFE/SOP/03 & FFE/SOP/04) using comparison with known samples, reference standards and publications
	Determination of Kinetic Energy of projectiles	Documented In house method (FFE/SOP/05) using chronograph and balance
	Test Firing to assess the functionality of weapons and/or ammunition.	Documented In house method (FFE/SOP/04 & FFE/SOP/10) using suspect or reference guns and ammunition
Electrical Shock Devices	Identification, classification and function test	Documented In house method (FFE/SOP/11) using visual examination, function testing and measurement of spark gap

END