

Trace Evidence Analysis

Module Information

2022.01, Approved

Summary Information

Module Code	7103PSCPD
Formal Module Title	Trace Evidence Analysis
Owning School	Justice Studies
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	14
Online	2
Practical	18
Tutorial	2
Workshop	4

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-CTY	CTY	April	12 Weeks
JAN-CTY	CTY	January	12 Weeks

SEP-CTY	CTY	September	12 Weeks
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Aims and Outcomes

Aims	<p>This CPD award aims to provide the student with the theoretical knowledge and practical experience that is required by a forensic scientist in order to identify and examine trace evidence, together with the ability to discuss, critically appraise and assess the results obtained. Trace evidence such as paint, glass and fibres play a pivotal role in criminal investigations. It is essential for forensic scientists to be able to identify, differentiate and analyse different types of trace evidence as well as to be able to interpret the results. Analysis of the majority of trace evidence begins with advanced microscopic methods and in some cases can end with chemical composition determination. On completion of the programme the student should be able to identify and differentiate between different types of trace evidence and to be able to interpret the results of their analysis, develop detailed knowledge of a range of advanced techniques used in the analysis of trace evidence and undertake a critical appraisal of the pivotal role and limitations played by trace evidence analysis using a case study.</p>
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify and differentiate between different types of trace evidence and to be able to interpret the results of their analysis
MLO2	2	Develop detailed knowledge of a range of advanced techniques used in the analysis of trace evidence.
MLO3	3	Undertake a critical appraisal of the pivotal role and limitations played by trace evidence analysis using a case study

Module Content

Outline Syllabus	Advanced microscopy techniques for the analysis of trace evidence Chemical ballistics Advanced fingerprinting
Module Overview	
Additional Information	<p>Programme code: 35937 There are no professional body requirements at present. Developments of the College of Policing are constantly monitored and incorporated, where appropriate. Benchmark Statement: There are no subject benchmarks for police studies but cognisance has been taken of the evolving police professionalisation agenda and where applicable the requirements of the College of Policing, together with appropriate National Occupational Standards for policing set out by Skills for Justice, the Benchmark Statements for Criminology and other QAA Benchmark Statements when appropriate. Mode and Duration of Study: This CPD module will be offered on a part time basis and through delivery on-site (at LJMU) or through a blended delivery process incorporating distance learning. However, and of note, this module is not available entirely off-site (UK or overseas) owing to some of the practical elements of its content. Delivery will be supported by the Virtual Learning Environment, Canvas. Whilst the intake month is flexible, with the module being able to commence in semester 1, semester 2 or the summer period, the duration of study will usually be across 18 weeks, with scope to negotiate with a student or their employing organisation for shorter or longer periods. Criteria for admission: The entry requirement is a first degree at 2:2 or above, international equivalent or through RPEL. This CPD module supports the development of police officers and police staff who are directly engaged in crime scene investigation, forensic recovery and submissions. It will also benefit those who will assess and manage such issues as part of their wider remit in conducting the overarching forensic strategy of an investigation. Name of final award: Certificate of Professional Development - Trace Evidence Analysis. Student Support: The University aims to provide students with access to appropriate and timely information, support and guidance to ensure that they are able to benefit fully from their time at LJMU. All students are assigned a Personal Tutor to provide academic support and when necessary signpost students to the appropriate University support services. Students are able to access a range of professional services including: Advice on practical aspects of study and how to use these opportunities to support and enhance their personal and academic development. This includes support for placements and careers guidance. Student Advice and Wellbeing Services provide students with advice, support and information, particularly in the areas of: student funding and financial matters, disability, advice and support to international students, study support, accommodation, health, wellbeing and counselling. Students studying for an LJMU award at a partner organisation will have access to local support services. Assessment Regulations: All programmes leading to LJMU awards operate within the University's Academic Framework. https://www.ljmu.ac.uk/about-us/public-information/academic-quality-and-regulations/academic-framework Compulsory attendance requirements: Students should attend all taught sessions in line with the University's Attendance Policy. This course was written in 2018. Methods for Evaluating and Improving Quality: All programmes leading to LJMU awards have been designed and approved in accordance with the UK Quality Code for Higher Education, including the Framework for Higher Education Qualifications in the UK (FHEQ) and subject benchmark statements where applicable. The University is subject to periodic review of its quality and standards by the Quality Assurance Agency (QAA) Published review reports are available on the QAA website at www.qaa.ac.uk Programmes which are professionally accredited are reviewed by professional, statutory and regulatory bodies (PSRBs) and such programmes must meet the competencies/standards of those PSRBs. The University uses the results of student feedback from internal and external student surveys.</p>

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Mini Project Report	50	0	MLO1, MLO2
Centralised Exam	Case Study Presentation	50	0	MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

Amanda Boddis	Yes	N/A
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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