Module Title **Trace Evidence Analysis** **Keywords** Search, recovery, contamination avoidance, control samples, interpretation, Fibres, Hair, Glass, Paint, databases	Reference AS3067 SCQF SCQF Level 9 SCQF Points 30 ECTS Points 15 Created June 2002 Approved June 2002 Amended May 2011 Version No. 4

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module

Completion of Forensic Examination & Analysis (AS2063) and Introduction to Crime Scene & Forensic Techniques (AS1006) or equivalent.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To extend the student?s ability in the search, recovery, analysis and

Mode of Delivery

This module is delivered using a mixture of laboratory work, crime scene examination, lectures and tutorials and a moot court exercise. The students will work in small teams in some of the exercises.

Assessment Plan

	Learning Outcomes Assessed
Component 1	4
Component 2	1
Component 3	2,3

interpretation of evidence with the emphasis being placed on the techniques used when working with trace evidence. To further develop the student?s skills in communication, team work and time management through various laboratory based, scene of crime and courtroom exercises.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1. Classify and assess the major types of trace evidence.
2. Research, devise, implement and manage correctly and safely a range of analytical procedures appropriate to given trace forensic samples.
3. Recover, assess and analyse trace samples collected in a group crime scene exercise.
4. Interpret and communicate effectively (orally and in writing) the results of the forensic examinations.

Indicative Module Content

Trace evidence: nature, types, recognition, recovery, security, analysis including hair, fibres, glass, paint, firearm discharge residues, soil. Contamination avoidance, control samples,

Component 1 - A written formal witness statement and a 15 minute cross examination in the moot court. These contribute 40% towards the final Module Grade.

Component 3 - Case file. This contributes 30% towards the Module Grade.

Component 2 - A class test on lecture course material, related instrumentation and crime scene work. This contributes 30% towards the final Module Grade.

Indicative Bibliography

1. *AS3067 Laboratory Manual,* School of Pharmacy & Life Sciences, Robert Gordon University. Current Issue.
2. ROBERTSON, J. ed. *Forensic Examination of Hair*. Current Edition. Taylor and Francis.
3. CADDY, B. ed., *Forensic Examination of Glass and Paint: Analysis and Interpretation*. Current Edition. Taylor and Francis.
4. ROBERTSON, J. AND GRIEVE, M., *Forensic Examination of Fibres*. Current Edition. Taylor and Francis.
5. LUCY, D. *Introduction to Statistics for Forensic Scientists*. Current Edition. Wiley.

packaging, assessment of significance. Students undertake a range of experiments using microscopic, spectroscopic and chromatographic techniques applied to forensic problems.

Indicative Student Workload

Contact Hours	Full Time
Laboratory Work	70
Lectures/Tutorials	32

Directed Study	
Directed Study	90

Private Study	
Private Study	108