



Providing practical training in statistics for forensic science

Every branch of the forensic sciences involves the use of statistics in one form or another.

Forensic Foundations provides practical training in an interactive modular format allowing you to tailor your training to meet your specific needs.



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Statistics for Forensic Science



Building evidence
on strong foundations

Statistics for Forensic Science

Module A

Module A is suitable for practitioners in all of the forensic science disciplines and covers topics including:

- ✓ Probability
- ✓ Sampling / sampling error
- ✓ Hypothesis testing
- ✓ Bayes' Theorem and Likelihood ratios
- ✓ Prosecutor/defence fallacies
- ✓ Measurement uncertainty

Module A can be used as a refresher for those who have undertaken some statistics training or can be used as an introduction to statistics for those who have never studied it.

Module B

Module B is suitable for Forensic Biologists who have some understanding of statistics or who have completed Module A and covers topics including:

- ✓ Mendelian/population genetics
- ✓ Sub-population theory and F_{ST}
- ✓ Interpretation of basic mixtures
- ✓ Paternity/parentage testing
- ✓ Database searching
- ✓ Reporting
- ✓ Explaining the results in court

- ✓ Interpretation of complex profiles
- ✓ Critical thinking
- ✓ Low level profiles
- ✓ Drop out and null alleles

Module C

Module C covers more advanced DNA statistics including:

- ✓ Interpretation of complex profiles
- ✓ Critical thinking
- ✓ Low level profiles
- ✓ Drop out and null alleles

Statistics for DNA Paternity/Parentage Testing

This program covers topics including:

- ✓ Probability
- ✓ Sampling / sampling error
- ✓ Hypothesis testing
- ✓ Bayes' Theorem and Likelihood ratios
- ✓ Prosecutor/defence fallacies
- ✓ Measurement uncertainty
- ✓ Mendelian/population genetics
- ✓ Sub-population theory and F_{ST}
- ✓ Paternity/parentage testing
- ✓ Reporting
- ✓ Explaining the results in court

Statistics for Forensic Science (Modules B & C) and Statistics for DNA Paternity/Parentage Testing can be formally assessed with an open book exam.