

Comprehensive Forensic Science Study Guide

Expert Witness Qualifications

An expert witness must demonstrate skill, experience, and education in a relevant field to be qualified for court testimony. This ensures that their testimony is credible, based on specialized knowledge, and can assist the court in understanding complex scientific evidence. The qualifications typically include practical experience in the field, formal training, and relevant educational background. Importantly, a formal degree in forensic science is not strictly necessary if the individual can demonstrate sufficient expertise through experience and training. The court evaluates these credentials to determine whether the witness's testimony will be considered expert and admissible.

Biology Unit Crime Lab Functions

The biology unit of a forensic laboratory handles various biological evidence types, including blood, hair, and plant matter. Their primary functions involve:

- **Blood typing:** Determining blood group (A, B, AB, O) and other blood characteristics.
- **Hair comparison:** Examining hair samples for species origin, race, or individual identification if DNA is present.
- **DNA profiling:** Extracting and analyzing DNA to identify individuals with high precision.
- **Plant matter analysis:** Identifying plant species or trace plant material transferred during crimes. It is important to note that the biology unit

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