Forensic Science Document Analysis Part1

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Document Analysis

- ♦ The examination and comparison of questioned documents with known material
 - Questioned Documents- any signature, handwriting, typewriting, or other written mark whose source or authenticity is in dispute or uncertain
- ★ Experts establish the authenticity of documents and detect any changes, erasures, or obliterations that may have occurred
 - Obliteration- writing over top to smear or make original writing unreadable

Common Questioned Documents

- **♦** Checks
- **♦** Certificates
- ♦ Wills
- ♦ Passports
- **♦** Licenses
- ♦ Money
- **♦** Letters

- **♦** Contracts
- ♦ Suicide Notes
- ♦ Receipts
- ♦ Even Lottery Tickets

Handwriting Analysis

- → Like Fingerprints, every person's handwriting is unique and personalized
- → Handwriting is difficult to disguise or forge
 - → Good tool for including or excluding persons when determining a match with an exemplar
- Questioned documents are compared to exemplars to determine matches
 - Exemplars- prewritten handwriting samples from a suspect(s)

History of Handwriting Analysis

- → 1930s—handwriting analysis played a role in the famous Lindbergh case.
- → 1999—the US Court of Appeals determined that handwriting analysis qualifies as a form of expert testimony
- → To be admissible in court, scientifically accepted guidelines must be followed
- ♦ Scotland Yard, the FBI, and the Secret Service
 use handwriting analysis

Introduction to Handwriting

- ♣ Everyone's handwriting exhibits natural variation
 - ♦ Writing instruments- pen, pencil, marker ect...
 - ♦ Other- Mood, age, hurried
- ♣ Brain does writing- methods of writing become subconscious
 - **Adults** show little variation

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12 Characteristics of Handwriting Line Quality

Do the letters flow or are they erratic and shaky?

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12 Characteristics of Handwriting Spacing

Are letters equally spaced or crowded?

Are margins evenly spaced?

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12 Characteristics of Handwriting Size Consistency

Is the ratio of height to width consistent?

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12 Characteristics of Handwriting Continuous

Is the writing continuous or does the writer lift the pen/pencil?

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12 Characteristics of Handwriting Connecting Letters

Are the capital and lowercase letters connected and continuous?

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12 Characteristics of Handwriting Letters Complete

Are letters completely formed? Or, is part of a letter missing?

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12 Characteristics of Handwriting Cursive and Printed Letters

Are there printed letters, cursive letters, or both?

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12 Characteristics of Handwriting Pen Pressure

Is pressure equal when applied to upward and downward strokes?

Thank You For Your Attention!

Questions and Comments