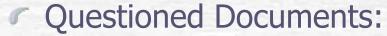
Document & Handwriting Analysis

Write down at least 3 parts of Document Analysis

Document Analysis



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FDIC

JERRY WEAVER CUNTERS IN MARCH 26, 2003

POSSER'S CHECK

POSSER'S

Any documents whose source or authenticity is uncertain. This includes checks, letters, wills, contracts, records, tickets, and money. It also includes handwriting, paper and ink analysis.

Document Examiner

a Heren Grueny.

Forensic Document Examination

 Involves the analysis and comparison of questioned documents with known material in order to identify whenever possible, the author or origin of the questioned document.

Document Examiners Question ...

- Is the signature genuine? Guided?
- Is the document forged?
- Is the same person the author of several documents?
- Did the doctor come back later and alter the medical records?
- What is written under the crossed out portion of the writing?
- Are both documents typed on the same machine?

Document Examiners Question ...

- What type of printer, or what printing process was used to print the document?
- Are there perforations, folds, staple holes, or other physical clues on the document?
- Are there erasures on the document?
- What was originally written before the alteration or under the obliteration?

Related Fields

- Historical Dating the verification of age and value of a document or object
- Fraud Investigation focuses on the money trail and criminal intent
- Paper and Ink Specialists date, type, source, and/or catalogue various types of paper, watermarks, ink, printing/copy/fax machines, computer cartridges
- Forgery Specialists analyze altered, obliterated, changed, or doctored documents and photos
- Typewriting Analysts determine origin, make, and models
- Computer Crime Investigators investigate cybercrime

Paper

- Differences
 - Raw material
 - Weight
 - Density
 - Thickness
 - Color
 - Watermarks
 - Age
 - Fluorescence

Counterfeit Currency

- 1862: US Congress authorized the US Treasury to print "Greenbacks"
- 1865 US Secret Service was established to stop counterfeiting

Counterfeiting

- In 1996 the government starting adding new security features to our paper money due to the advanced copying technologies that have raised the incidences of counterfeiting.
 - Watermark: Image that does not copy
 - Color shift inks: used in numbers in lower right corner change color when seen at different angles
 - Lines behind the portrait
 - Enlarged picture has more detail
 - Low vision feature: large dark numbers in lower right corner
 - Security thread
 - Microprinting: fine printing that appears as a thin line to the eye

Handwriting

- Handwriting analysis involves two phases:
 - The hardware ink, paper, pens, pencils, typewriter, printers
 - Visual examination of the writing

Ink

- Chromatography is a method of physically separating the components of inks
- All inks are not alike. The blue in BIC, Parker, Cross, Pilot and Papermate pens are all different when passed through chromatography

12 Basic Characteristics of Handwriting

- Line quality flowing letters vs. laborious movements
- 2. Spacing of Word & Letters spacing in between words and the formation of letters
- 3. Relative Heights, Widths & Sizes of Letters Consistencies among letters
- 4. Penlifts & Separations How one stops writing when forming new letters or words

12 Basic Characteristics of Handwriting

- 5. Connecting Strokes Connecting strokes within letters and words, etc. (Capital letters to lower case)
- 6. Beginning & Ending Strokes Beginning a letter formation or number and where the stroke ends as to location
- 7. Unusual Letter Formations Backwards letters, capital letters, etc.
- 8. Shading (Pen pressure) Pressure and ink width is placed on upward and downward strokes.

12 Basic Characteristics of Handwriting

- 9. Slant Writing slants to the right, left, straight up & down, combination. Degree of slat (Angle can be measured).
- 10. Baseline Habits Write along a straight line? Or do lines slope upward, downward, or are bent in the middle?
- 11. Embellishments Curls, loops, etc.
- 12. Placement of Diacritics Crossing 't', dotting 'i', other punctuation marks

Handwriting Identification

- Analysis of the questioned or unknown writing and determination of its characteristics
- Evaluation of the evidence, including the similarities and dissimilarities between the "questioned" and "known" writing
- The document examiner must have enough exemplars to make a determination of whether or not the two samples match

Handwriting

- Can change due to
 - Age
 - Illness
 - Fatigue
 - Stress
 - Injury
 - Intoxication
 - Drugs

Methods of Forgery

- Simulated forgery one made by copying a genuine signature
- Traced forgery one made by tracing a genuine signature
- Blind forgery made without a model of the signature

Types of Forgery

- Check Fraud
 - Forgery
 - Counterfeit
 - Alterations
- Paper Money
 - Counterfeit
- Identity
 - Social Security
 - Driver's License

- Credit Cards
 - Theft of card or number
- Art imitation with intent to deceive
 - Microscopic examination
 - Electromagnetic radiation
 - Chemical analysis
- Contracts alterations of contracts, medical records

Evidence

- Class characteristics may include general types of pens, pencils or paper
- Individual characteristics may include unique, individual handwriting characteristics; trash marks from copiers, or printer serial numbers.