

## Deduction Mysteries

### CASE 01

A confidential memo was taken from the legal archive of Velocity Labs between 16:40 and 19:45. The operation required expert knowledge of the system. Five people had any plausible connection: Esme (facilities coordinator), Tariq (legal counsel), Beatrix (senior engineer), Dimah (HR director), Frida (security officer).

#### Q Who took the confidential memo?

1. Tariq was documented by the witness account in a different building during the window.
2. Frida was documented by the door access record in a different building during the window.
3. Esme was at a scheduled external meeting during the window.
4. Beatrix claims to have been out for a long break during the window. No supporting evidence has been provided.
5. Dimah's door access record confirms they were at the remote facility from 16:40 to 19:45.
6. The corporate theft required expert knowledge of the system – only Dimah and Beatrix have this among the five.
7. The legal archive is normally accessed only via elevator key, and Beatrix's admin credentials was used at 16:40.

### CASE 02

A genealogy register was taken from the archive stacks of City Records Office between 15:00 and 18:30. The operation required technical training. Five people had any plausible connection: Gisela (head archivist), Hattie (intern), Tess (administrator), Arjun (researcher), Finnegan (genealogist).

#### Q Who took the genealogy register?

1. Hattie was at the external facility the entire window during the window.
2. The theft required technical training – only Arjun and Gisela have this among the five.
3. The archive stacks is normally accessed only via archive badge, and Gisela's archive badge was used at 15:00.
4. Gisela claims to have been out for a long break during the window. No supporting evidence has been provided.
5. Tess was documented by the camera footage in a different building during the window.
6. Arjun's witness patron confirms they were at the external office from 15:00 to 18:30.
7. Finnegan was at a scheduled training course during the window.

### CASE 03

A prototype compound was swapped from the glove box of Pemberton Pharmaceuticals between 14:20 and 16:15. The operation required authorized credentials. Five people had any plausible connection: Alessio (operations manager), Sigrid (lab technician), Roksana (clinical coordinator), Indira (equipment manager), Wren (postdoctoral researcher).

#### Q Who swapped the prototype compound?

1. Indira was at the front desk the entire window during the window.
2. The glove box is normally accessed only via clean-room access, and Sigrid's biohazard clearance was used at 14:20.
3. Indira's lab badge was not used at any point during the window.
4. Roksana was at a scheduled conference call during the window.
5. Alessio was at a scheduled training course during the window.
6. Wren's witness sighting confirms they were at the external office from 14:20 to 16:15.
7. The sample tampering required authorized credentials – only Sigrid and Wren have this among the five.

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### CASE 04

A custom engine part was taken from the welding bay of Northgate Workshop between 13:20 and 16:10. The operation required authorized credentials. Five people had any plausible connection: Isolde (painter), Ulla (quality inspector), Helena (electrician), Zephyr (welder), Mahdi (customer service rep).

#### Q Who took the custom engine part?

1. Ulla was at a scheduled external meeting during the window.
2. The welding bay is normally accessed only via tool-crib key, and Mahdi's tool-crib key was used at 13:20.
3. Isolde's door sensor confirms they were at the external office from 13:20 to 16:10.
4. The theft required authorized credentials – only Isolde and Mahdi have this among the five.
5. Mahdi claims to have been working alone in their office during the window. No supporting evidence has been provided.
6. Zephyr was at the front desk the entire window during the window.
7. Helena was at a scheduled conference call during the window.

### CASE 05

A game-day playbook was taken from the trophy display case of Brightline Fitness between 13:15 and 16:15. The operation required expert knowledge of the system. Five people had any plausible connection: Arjun (referee), Tatum (star player), Leander (team captain), Faye (equipment manager), Aleksandr (facilities manager).

#### Q Who took the game-day playbook?

1. Aleksandr claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
2. Leander was at the external facility the entire window during the window.
3. Faye's badge log confirms they were at the remote facility from 13:15 to 16:15.
4. Arjun was at a scheduled external meeting during the window.
5. The theft required expert knowledge of the system – only Aleksandr and Faye have this among the five.
6. Tatum was at the external facility the entire window during the window.
7. The trophy display case is normally accessed only via facility badge, and Aleksandr's equipment-room key was used at 13:15.

### CASE 06

A signed binary release was extracted from the data archive of Solstice Labs between 16:20 and 18:15. The operation required required certifications. Five people had any plausible connection: Lior (DevOps lead), Jacinta (intern), Alejandro (data scientist), Jules (product manager), Enzo (senior engineer).

#### Q Who extracted the signed binary release?

1. Jacinta claims to have been working alone in their office during the window. No supporting evidence has been provided.
2. Enzo's badge swipe confirms they were at the off-site location from 16:20 to 18:15.
3. The data theft required required certifications – only Jacinta and Enzo have this among the five.
4. Alejandro was at a scheduled conference call during the window.
5. Jules's SSH key was not used at any point during the window.
6. Jules was documented by the CCTV camera in a different building during the window.
7. The data archive is normally accessed only via badge, and Jacinta's VPN credentials was used at 16:20.

## Deduction Mysteries

### CASE 07

A SSL certificate was extracted from the war room of Velocity Networks between 15:20 and 17:15. The operation required expert knowledge of the system. Five people had any plausible connection: Kasimir (intern), Idris (site-reliability engineer), Adrian (DevOps lead), Zephyr (CTO), Stellan (security analyst).

#### Q Who extracted the SSL certificate?

1. Adrian was at a scheduled conference call during the window.
2. The data theft required expert knowledge of the system – only Kasimir and Zephyr have this among the five.
3. Kasimir's witness colleague confirms they were at the remote facility from 15:20 to 17:15.
4. Zephyr claims to have been working alone in their office during the window. No supporting evidence has been provided.
5. Idris was documented by the MFA token log in a different building during the window.
6. Stellan was documented by the VPN session log in a different building during the window.
7. Adrian's badge was not used at any point during the window.

### CASE 08

A test specimen was swapped from the centrifuge bay of Aldermarsh Laboratory between 13:40 and 15:30. The operation required technical training. Five people had any plausible connection: Yvonne (undergraduate volunteer), Jian (operations manager), Hakim (visiting scientist), Lana (equipment manager), Maeve (graduate student).

#### Q Who swapped the test specimen?

1. Maeve was documented by the equipment timestamp in a different building during the window.
2. Yvonne was at the main office the entire window during the window.
3. The centrifuge bay is normally accessed only via freezer key, and Lana's clean-room access was used at 13:40.
4. The sample tampering required technical training – only Lana and Jian have this among the five.
5. Jian's badge swipe confirms they were at the remote facility from 13:40 to 15:30.
6. Lana claims to have been out for a long break during the window. No supporting evidence has been provided.
7. Hakim was documented by the sample log in a different building during the window.

### CASE 09

A calibration gauge was taken from the main shop floor of Helix Restoration between 15:00 and 17:00. The operation required expert knowledge of the system. Five people had any plausible connection: Hiroshi (parts clerk), Sami (machinist), Oren (painter), Vera (electrician), Mira (welder).

#### Q Who took the calibration gauge?

1. The main shop floor is normally accessed only via shop key, and Hiroshi's manager key was used at 15:00.
2. The theft required expert knowledge of the system – only Hiroshi and Vera have this among the five.
3. Mira was at the external facility the entire window during the window.
4. Hiroshi claims to have been working alone in their office during the window. No supporting evidence has been provided.
5. Oren was at the external facility the entire window during the window.
6. Mira's tool-crib key was not used at any point during the window.
7. Vera's shop camera confirms they were at the external office from 15:00 to 17:00.

## Answer Key – Deduction Mysteries

Solve before peeking. Correct suspect and key reasoning steps below.

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### Case 01 D) Beatrix

- ☒ The corporate theft required expert knowledge of the system.
  - ☒ Esme lacks the required skill – cleared.
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### Case 02 C) Gisela

- ☒ The theft required technical training.
  - ☒ Hattie lacks the required skill – cleared.
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### Case 03 C) Sigrid

- ☒ The sample tampering required authorized credentials.
  - ☒ Alessio lacks the required skill – cleared.
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### Case 04 D) Mahdi

- ☒ The theft required authorized credentials.
  - ☒ Ulla lacks the required skill – cleared.
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### Case 05 E) Aleksandr

- ☒ The theft required expert knowledge of the system.
  - ☒ Arjun lacks the required skill – cleared.
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### Case 06 A) Jacinta

- ☒ The data theft required required certifications.
  - ☒ Lior lacks the required skill – cleared.
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### Case 07 D) Zephyr

- ☒ The data theft required expert knowledge of the system.
  - ☒ Idris lacks the required skill – cleared.
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### Case 08 E) Lana

- ☒ The sample tampering required technical training.
  - ☒ Yvonne lacks the required skill – cleared.
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### Case 09 D) Hiroshi

- ☒ The theft required expert knowledge of the system.
- ☒ Sami lacks the required skill – cleared.