

Deduction Mysteries

CASE 01

A signed treaty was taken from the storage basement of Saint-Clair Historical Society between 03:30 and 05:45. The operation required specific qualifications and access. 7 suspects: Phaedra (head archivist), Cassia (records administrator), Theo (security officer), Simeon (researcher), Odell (volunteer), Wilder (clerk), Yusuf (administrator).

Q Who took the signed treaty?

1. Simeon's research-room pass was revoked two weeks prior; archived access list confirms.
2. Theo has all three required qualifications.
3. Theo stated they left the building at 23:50, but the elevator log shows their research-room pass active at 03:30.
4. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Theo.
5. Phaedra was seen near the restricted reading room earlier that evening, but they had left the building by 21:15 and never returned.
6. The theft required a specific paint formulation only stocked in the restoration lab.
7. Phaedra lacks the required professional training – confirmed by personnel records.
8. Cassia had the qualifications but family was visiting during the window – third-party verified.
9. Wilder's research-room pass was revoked two weeks prior; archived access list confirms.
- 10 Three independent requirements: professional training, research-room pass access, and presence at the storage basement during the 03:30-05:45 window.
- 11 Yusuf lacks the required professional training – confirmed by personnel records.
- 12 Odell was at a documented hospital appointment during the window – verified by badge swipe.

CASE 02

A curator notebook was taken from the staff workroom of Northgate Library between 00:45 and 02:15. The operation required specific qualifications and access. 7 suspects: Sami (cataloger), Faye (volunteer), Arjun (rare-books curator), Aiko (custodian), Katarina (archivist), Amari (intern), Ishaan (reference librarian).

Q Who took the curator notebook?

1. Aiko stated they left the building at 23:45, but the DHCP server log shows their reading-room pass active at 00:45.
2. Aiko has all three required qualifications.
3. The theft required a specific paint formulation only stocked in the restoration lab.
4. Arjun's staff key was revoked two weeks prior; archived access list confirms.
5. Three independent requirements: professional certification, staff key access, and presence at the staff workroom during the 00:45-02:15 window.
6. Amari was at a documented training during the window – verified by book-checkout record.
7. Faye was at a documented training during the window – verified by badge swipe.
8. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Aiko.
9. Sami's staff key was revoked two weeks prior; archived access list confirms.
- 10 Ishaan was at a documented conference during the window – verified by witness patron.
- 11 Katarina's staff key was revoked two weeks prior; archived access list confirms.
- 12 Faye was seen near the rare books vault earlier that evening, but they had left the building by 20:55 and never returned.

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CASE 03

A source code repository was extracted from the SOC operations center of Atlas Cloud between 00:30 and 02:30. The operation required specific qualifications and access. 6 suspects: Frida (senior engineer), Fariha (support lead), Lana (DevOps lead), Ulla (CTO), Olive (intern), Damaris (data scientist).

Q Who extracted the source code repository?

1. Lana was seen near the network closet earlier that evening, but they had left the building by 21:25 and never returned.
2. Ulla lacks the required professional certification – confirmed by personnel records.
3. Damaris has all three required qualifications.
4. Frida had the qualifications but was hospitalized during the window – third-party verified.
5. The data theft required a specific paint formulation only stocked in the restoration lab.
6. Three independent requirements: professional certification, admin token access, and presence at the SOC operations center during the 00:30-02:30 window.
7. Olive was at a documented training during the window – verified by witness colleague.
8. Damaris stated they left the building at 23:35, but the parking-lot camera shows their SSH key active at 00:30.
9. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Damaris.
10. Lana's SSH authentication log shows continuous presence in a separate building.

11. Fariha lacks the required professional certification – confirmed by personnel records.

A) Frida B) Olive C) Lana D) Damaris E) Ulla F) Fariha

CASE 04

A customer credit-card list was extracted from the SOC operations center of Helix Tech between 00:45 and 02:45. The operation required specific qualifications and access. 6 suspects: Ishaan (contractor), Amari (support lead), Talia (intern), Enzo (DevOps lead), Dimah (security analyst), Fariha (data scientist).

Q Who extracted the customer credit-card list?

1. Ishaan was seen near the data archive earlier that evening, but they had left the building by 21:25 and never returned.
2. Enzo had the qualifications but was on a flight during the window – third-party verified.
3. Dimah's VPN credentials was revoked two weeks prior; archived access list confirms.
4. Talia had the qualifications but family was visiting during the window – third-party verified.
5. The data theft required a specific paint formulation only stocked in the restoration lab.
6. Amari's VPN session log shows continuous presence in a separate building.
7. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Fariha.
8. Fariha stated they left the building at 23:05, but the network authentication record shows their SSH key active at 00:45.
9. Fariha has all three required qualifications.
10. Ishaan had the qualifications but family was visiting during the window – third-party verified.
11. Three independent requirements: professional certification, VPN credentials access, and presence at the SOC operations center during the 00:45-02:45 window.

Deduction Mysteries

CASE 05

A calibration kit was swapped from the prep bench of Solstice Research between 03:15 and 05:45. The operation required specific qualifications and access. 7 suspects: Suri (visiting scientist), Ishaan (equipment manager), Bram (graduate student), Gisela (principal investigator), Kenji (clinical coordinator), Tarek (undergraduate volunteer), Arjun (lab technician).

Q Who swapped the calibration kit?

1. Bram had the qualifications but was hospitalized during the window – third-party verified.
2. Gisela has all three required qualifications.
3. Tarek's witness sighting shows continuous presence in a separate building.
4. Kenji lacks the required professional certification – confirmed by personnel records.
5. Ishaan's equipment timestamp shows continuous presence in a separate building.
6. Suri lacks the required professional certification – confirmed by personnel records.
7. Arjun's biohazard clearance was revoked two weeks prior; archived access list confirms.
8. The sample tampering required a unique encryption signature traceable to internal-only training.
9. Suri was seen near the cold-storage freezer earlier that evening, but they had left the building by 21:55 and never returned.
- 10 A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Gisela.
- 11 Gisela stated they left the building at 22:35, but the network authentication record shows their freezer key active at 03:15.

CASE 06

An archive password log was taken from the reference desk of Pemberton Research Library between 03:00 and 05:30. The operation required specific qualifications and access. 7 suspects: Aaliyah (visiting scholar), Cosima (head librarian), Joaquin (archivist), Xiomara (research assistant), Ishaan (volunteer), Finnegan (custodian), Faye (cataloger).

Q Who took the archive password log?

1. Aaliyah stated they left the building at 23:45, but the network authentication record shows their reading-room pass active at 03:00.
2. Finnegan's book-checkout record shows continuous presence in a separate building.
3. Xiomara was at a documented training during the window – verified by witness patron.
4. Faye lacks the required professional training – confirmed by personnel records.
5. Joaquin had the qualifications but was hospitalized during the window – third-party verified.
6. The theft required a digital certificate issued only to senior staff.
7. Ishaan was at a documented hospital appointment during the window – verified by witness patron.
8. Xiomara was seen near the microfilm area earlier that evening, but they had left the building by 21:15 and never returned.
9. Three independent requirements: professional training, reading-room pass access, and presence at the reference desk during the 03:00–05:30 window.
- 10 Cosima was at a documented hospital appointment during the window – verified by witness patron.
- 11 Aaliyah has all three required qualifications.
- 12 A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Aaliyah.

Answer Key – Deduction Mysteries

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

Case 01 A) Theo

- ☒ Three requirements (professional training, research-room pass, presence at the storage basement during the 03:30-05:45 window) plus a technical trace narrow this case.
 - ☒ Phaedra eliminated by alibi or missing qualification.
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Case 02 F) Aiko

- ☒ Three requirements (professional certification, staff key, presence at the staff workroom during the 00:45-02:15 window) plus a technical trace narrow this case.
 - ☒ Sami eliminated by alibi or missing qualification.
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Case 03 D) Damaris

- ☒ Three requirements (professional certification, admin token, presence at the SOC operations center during the 00:30-02:30 window) plus a technical trace narrow this case.
 - ☒ Frida eliminated by alibi or missing qualification.
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Case 04 F) Fariha

- ☒ Three requirements (professional certification, VPN credentials, presence at the SOC operations center during the 00:45-02:45 window) plus a technical trace narrow this case.
 - ☒ Ishaan eliminated by alibi or missing qualification.
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Case 05 undefined) Gisela

- ☒ Three requirements (professional certification, biohazard clearance, presence at the prep bench during the 03:15-05:45 window) plus a technical trace narrow this case.
 - ☒ Suri eliminated by alibi or missing qualification.
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Case 06 F) Aaliyah

- ☒ Three requirements (professional training, reading-room pass, presence at the reference desk during the 03:00-05:30 window) plus a technical trace narrow this case.
- ☒ Cosima eliminated by alibi or missing qualification.