

Deduction Mysteries

CASE 01

The client's car keys were taken from the tool crib of Northgate Workshop between 00:45 and 02:15. The operation required specific qualifications and access. 6 suspects: Kalisa (machinist), Rhys (shop manager), Lana (customer service rep), Dario (welder), Aurora (apprentice), Cyrus (master mechanic).

Q Who took the client's car keys?

1. Lana had the qualifications but was hospitalized during the window – third-party verified.
2. Cyrus lacks the required professional training – confirmed by personnel records.
3. The theft required a stamped seal serial number from a controlled supply closet.
4. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Rhys.
5. Rhys stated they left the building at 22:25, but the door sensor history shows their manager key active at 00:45.
6. Aurora was seen near the manager's office earlier that evening, but they had left the building by 21:45 and never returned.
7. Rhys has all three required qualifications.
8. Three independent requirements: professional training, tool-crib key access, and presence at the tool crib during the 00:45-02:15 window.
9. Dario had the qualifications but family was visiting during the window – third-party verified.
- 10 Kalisa's tool-crib key was revoked two weeks prior; archived access list confirms.

11 Aurora was at	a documented hospital appointment	during the window – verified by	door sensor.
A) Lana	B) Cyrus	C) Rhys	D) Aurora E) Kalisa F) Dario

CASE 02

An enzyme batch was swapped from the centrifuge bay of Brightline Sciences between 03:30 and 05:30. The operation required specific qualifications and access. 7 suspects: Caelan (visiting scientist), Joren (safety officer), Saoirse (equipment manager), Hakim (lab technician), Aleksandr (undergraduate volunteer), Damaris (principal investigator), Ula (postdoctoral researcher).

Q Who swapped the enzyme batch?

1. Saoirse has all three required qualifications.
2. Caelan was at a documented hospital appointment during the window – verified by witness sighting.
3. Damaris's equipment timestamp shows continuous presence in a separate building.
4. Joren had the qualifications but was hospitalized during the window – third-party verified.
5. Hakim's witness sighting shows continuous presence in a separate building.
6. Saoirse stated they left the building at 22:05, but the badge access record shows their lab badge active at 03:30.
7. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Saoirse.
8. Joren was seen near the PI office earlier that evening, but they had left the building by 20:10 and never returned.
9. Three independent requirements: professional training, biohazard clearance access, and presence at the centrifuge bay during the 03:30-05:30 window.
- 10 The sample tampering required a custom-machined tool stocked only in equipment closet B.

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CASE 03

A calibration kit was swapped from the sample storage of Helix Bioresearch between 01:45 and 03:00. The operation required specific qualifications and access. 7 suspects: Rosalind (postdoctoral researcher), Yara (undergraduate volunteer), Tomas (visiting scientist), Kenji (equipment manager), Leila (principal investigator), Cyrus (safety officer), Galina (operations manager).

Q Who swapped the calibration kit?

1. Yara's lab badge was revoked two weeks prior; archived access list confirms.
2. Leila lacks the required professional certification – confirmed by personnel records.
3. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Kenji.
4. Galina was at a documented conference during the window – verified by equipment timestamp.
5. Three independent requirements: professional certification, lab badge access, and presence at the sample storage during the 01:45–03:00 window.
6. Leila was seen near the glove box earlier that evening, but they had left the building by 21:05 and never returned.
7. Kenji has all three required qualifications.
8. Tomas's witness sighting shows continuous presence in a separate building.
9. Kenji stated they left the building at 23:50, but the parking-lot camera shows their biohazard clearance active at 01:45.
10. Cyrus was at a documented training during the window – verified by sample log.
11. Rosalind lacks the required professional certification – confirmed by personnel records.

CASE 04

A specialized welding kit was taken from the blueprint room of Northgate Workshop between 01:45 and 03:30. The operation required specific qualifications and access. 6 suspects: Roksana (electrician), Ishaan (parts clerk), Mateo (machinist), Fenella (shop manager), Mahdi (apprentice), Selene (customer service rep).

Q Who took the specialized welding kit?

1. The theft required a digital certificate issued only to senior staff.
2. Roksana was seen near the parts storage earlier that evening, but they had left the building by 21:55 and never returned.
3. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Fenella.
4. Mahdi's parts-room audit shows continuous presence in a separate building.
5. Fenella stated they left the building at 22:10, but the elevator log shows their tool-crib key active at 01:45.
6. Three independent requirements: professional training, shop key access, and presence at the blueprint room during the 01:45–03:30 window.
7. Fenella has all three required qualifications.
8. Roksana was at a documented hospital appointment during the window – verified by door sensor.
9. Mateo's witness coworker shows continuous presence in a separate building.
10. Ishaan's shop key was revoked two weeks prior; archived access list confirms.
11. Selene was at a documented hospital appointment during the window – verified by tool-checkout log.

Deduction Mysteries

CASE 05

A signature dish recipe was taken from the pastry station of Helix Kitchen between 03:30 and 05:45. The operation required specific qualifications and access. 6 suspects: Omari (server), Yara (pastry chef), Katarina (bartender), Saoirse (line cook), Sigrid (sommelier), Yvonne (head chef).

Q Who took the signature dish recipe?

1. Katarina was at a documented training during the window – verified by witness server.
2. Yvonne stated they left the building at 23:05, but the door sensor history shows their register code active at 03:30.
3. Saoirse had the qualifications but was on a flight during the window – third-party verified.
4. Yara had the qualifications but was on a flight during the window – third-party verified.
5. Yara was seen near the pastry station earlier that evening, but they had left the building by 20:20 and never returned.
6. The theft required a custom-machined tool stocked only in equipment closet B.
7. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Yvonne.
8. Three independent requirements: professional expertise, manager key access, and presence at the pastry station during the 03:30–05:45 window.
9. Sigrid's POS log shows continuous presence in a separate building.
- 10 Omari's POS log shows continuous presence in a separate building.

11 Yvonne has all three required qualifications.

A) Saoirse

B) Sigrid

C) Yara

D) Omari

E) Katarina

F) Yvonne

CASE 06

A prop weapon was taken from the dressing room of Argent Theatre between 00:15 and 02:00. The operation required specific qualifications and access. 6 suspects: Ines (lighting tech), Hattie (box-office manager), Zephyr (understudy), Mei (stage manager), Nikolai (lead actor), Bao (musical director).

Q Who took the prop weapon?

1. Ines stated they left the building at 22:00, but the network authentication record shows their director's key active at 00:15.
2. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Ines.
3. Mei was seen near the director's office earlier that evening, but they had left the building by 21:35 and never returned.
4. Hattie had the qualifications but was on a flight during the window – third-party verified.
5. Mei's box-office system shows continuous presence in a separate building.
6. Bao's backstage pass was revoked two weeks prior; archived access list confirms.
7. Zephyr's backstage pass was revoked two weeks prior; archived access list confirms.
8. Three independent requirements: professional expertise, backstage pass access, and presence at the dressing room during the 00:15–02:00 window.
9. Ines has all three required qualifications.
- 10 Nikolai's backstage pass was revoked two weeks prior; archived access list confirms.
- 11 The theft required a unique encryption signature traceable to internal-only training.

Answer Key – Deduction Mysteries

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

Case 01 C) Rhys

- ☐ Three requirements (professional training, tool-crib key, presence at the tool crib during the 00:45-02:15 window) plus a technical trace narrow this case.
 - ☐ Kalisa eliminated by alibi or missing qualification.
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Case 02 F) Saoirse

- ☐ Three requirements (professional training, biohazard clearance, presence at the centrifuge bay during the 03:30-05:30 window) plus a technical trace narrow this case.
 - ☐ Caelan eliminated by alibi or missing qualification.
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Case 03 undefined) Kenji

- ☐ Three requirements (professional certification, lab badge, presence at the sample storage during the 01:45-03:00 window) plus a technical trace narrow this case.
 - ☐ Rosalind eliminated by alibi or missing qualification.
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Case 04 C) Fenella

- ☐ Three requirements (professional training, shop key, presence at the blueprint room during the 01:45-03:30 window) plus a technical trace narrow this case.
 - ☐ Roksana eliminated by alibi or missing qualification.
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Case 05 F) Yvonne

- ☐ Three requirements (professional expertise, manager key, presence at the pastry station during the 03:30-05:45 window) plus a technical trace narrow this case.
 - ☐ Omari eliminated by alibi or missing qualification.
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Case 06 A) Ines

- ☐ Three requirements (professional expertise, backstage pass, presence at the dressing room during the 00:15-02:00 window) plus a technical trace narrow this case.
- ☐ Hattie eliminated by alibi or missing qualification.