

Deduction Mysteries

CASE 01

A custom engine part was taken from the blueprint room of Pemberton Repair during the overnight window between 02:15 and 05:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Enzo (machinist), Finnegan (shop manager), Bayan (apprentice), Nadia (painter), Zara (parts clerk), Arjun (master mechanic), Nikolai (welder). Several have strong-looking motives.

Q Who took the custom engine part?

1. Nikolai their video call ended at 23:50 according to the system.
2. The theft involved a foam replica skillfully painted with restoration-grade spray paint.
3. Bayan clashed publicly with management – appears to have motive.
4. Arjun has only authorization to handle the item of the four requirements.
5. Zara had financial pressure – appears to have motive.
6. Initial assumption pointed to Enzo because of public friction with management, but this has been independently ruled out.
7. Nadia has clean-room or vault clearance and authorization to handle the item and elevated system privileges – initial suspicion was high.
8. Bayan has elevated system privileges and clean-room or vault clearance – initial suspicion was high.
9. However: Zara is cleared – but their manager key was revoked the day before – confirmed in the security audit.
- 10 The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties . directly to inventory or systems uniquely accessible to Nikolai.
- 11 Four independent requirements: elevated system privileges, clean-room or vault clearance, presence . between 02:15 and 05:45, and authorization to handle the item.
- 12 Finnegan lacks elevated system privileges – confirmed by personnel records.

CASE 02

The master plans were taken from the tool crib of Aldermarsh Auto Works during the overnight window between 02:45 and 06:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Kerensa (master mechanic), Damaris (apprentice), Talia (painter), Mei (shop manager), Tatum (welder), Mira (quality inspector), Kasper (machinist), Kalisa (parts clerk). Several have strong-looking motives.

Q Who took the master plans?

1. However: Kasper is cleared – but they were on a documented overnight flight, verified by airline records.
2. Mira lacks clean-room or vault clearance – security audit confirms.
3. Kerensa has only clean-room or vault clearance of the four requirements.
4. Damaris has advanced restoration training and clean-room or vault clearance – initial suspicion was high.
5. Damaris filed a grievance two weeks ago – appears to have motive.
6. The theft involved a seal cut with a serial pattern from a specific supply.
7. Tatum lacks clean-room or vault clearance – security audit confirms.
8. However: Damaris is cleared – but they were on a documented overnight flight, verified by airline records.
9. However: Talia is cleared – but they were on a documented overnight flight, verified by airline records.
- 10 Talia filed a grievance two weeks ago – appears to have motive.
- 11 Initial assumption pointed to Mei because of being seen near the building, but this has been . independently ruled out.

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CASE 03

A calibration kit was swapped from the PI office of Helix Bioresearch during the overnight window between 02:30 and 05:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Saoirse (visiting scientist), Kerensa (postdoctoral researcher), Sami (lab technician), Roksana (undergraduate volunteer), Tomas (safety officer), Daphne (operations manager), Faye (clinical coordinator). Several have strong-looking motives.

Q Who swapped the calibration kit?

1. However: Kerensa is cleared – but clean-room entry log places them at the hospital with a family emergency during the entire window.
2. Four independent requirements: advanced restoration training, after-hours building access, presence between 02:30 and 05:15, and knowledge of the seal serial pattern.
3. Saoirse has knowledge of the seal serial pattern and after-hours building access and advanced restoration training – initial suspicion was high.
4. Kerensa has knowledge of the seal serial pattern and advanced restoration training and after-hours building access – initial suspicion was high.
5. The sample tampering involved an encryption signature tied to the internal training network.
6. Saoirse filed a grievance two weeks ago – appears to have motive.
7. Faye's equipment timestamp shows them off-site the entire window.
8. Sami has only knowledge of the seal serial pattern of the four requirements.
9. Tomas clashed publicly with management – appears to have motive.
- 10 The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Roksana.
- 11 But: however the DHCP log shows their vehicle remained in the lot until well after 02:30.
- 12 Kerensa filed a grievance two weeks ago – appears to have motive.

CASE 04

A sealed parts shipment was taken from the parts storage of Saint-Clair Machining during the overnight window between 02:00 and 05:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Cosima (welder), Akira (painter), Zoltan (shop manager), Ginevra (machinist), Frida (electrician), Octavia (apprentice), Yvonne (master mechanic). Several have strong-looking motives.

Q Who took the sealed parts shipment?

1. However: Octavia is cleared – but they were on a documented overnight flight, verified by airline records.
2. Frida has all four requirements: elevated system privileges, clean-room or vault clearance, authorization to handle the item, and meets the temporal requirement (presence between 02:00 and 05:00).
3. Akira lacks elevated system privileges – confirmed by personnel records.
4. Initial assumption pointed to Yvonne because of proximity to the scene earlier, but this has been independently ruled out.
5. Octavia clashed publicly with management – appears to have motive.
6. Octavia has elevated system privileges and authorization to handle the item and clean-room or vault clearance – initial suspicion was high.
7. Frida their video call ended at 23:20 according to the system.
8. However: Cosima is cleared – but they were on a documented overnight flight, verified by airline records.
9. The trace at the scene (a seal cut with a serial pattern from a specific supply) ties directly to inventory or systems uniquely accessible to Frida.
- 10 Cosima was passed over for a recent promotion – appears to have motive.

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CASE 05

A silver chalice was taken from the restoration lab of Pemberton Wing during the overnight window between 01:30 and 05:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Florian (tour guide), Tariq (janitor), Kiran (security guard), Ula (docent), Dario (archivist), Ishaan (art restorer), Polina (exhibition designer). Several have strong-looking motives.

Q Who took the silver chalice?

1. Kiran lacks administrator credentials – security audit confirms.
2. Ula lacks elevated system privileges – confirmed by personnel records.
3. The theft involved a network certificate signed by senior staff.
4. However: Florian is cleared – but motion sensor places them at the hospital with a family emergency during the entire window.
5. Florian has knowledge of the seal serial pattern and elevated system privileges and administrator credentials – initial suspicion was high.
6. Dario has all four requirements: elevated system privileges, administrator credentials, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 01:30 and 05:30).
7. Tariq has knowledge of the seal serial pattern and elevated system privileges and administrator credentials – initial suspicion was high.
8. Tariq clashed publicly with management – appears to have motive.
9. Dario was officially signed out at 23:35 via the front-desk register.
- 10 Polina had financial pressure – appears to have motive.
- 11 However: Tariq is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 12 Polina has knowledge of the seal serial pattern and elevated system privileges – initial suspicion was high.

CASE 06

An annotated copy was taken from the special collections room of Saint-Clair Collection during the overnight window between 00:45 and 03:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Zoltan (head librarian), Ines (cataloger), Oren (custodian), Bram (volunteer), Stellan (archivist), Tariq (reference librarian), Fariha (research assistant). Several have strong-looking motives.

Q Who took the annotated copy?

1. Stellan lacks elevated system privileges – confirmed by personnel records.
2. Tariq filed a grievance two weeks ago – appears to have motive.
3. Fariha has after-hours building access and elevated system privileges and possession of the specific tool used – initial suspicion was high.
4. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Bram.
5. Four independent requirements: elevated system privileges, after-hours building access, presence between 00:45 and 03:30, and possession of the specific tool used.
6. Oren had financial pressure – appears to have motive.
7. Zoltan's archive log shows them off-site the entire window.
8. Tariq has possession of the specific tool used and elevated system privileges – initial suspicion was high.
9. Oren has elevated system privileges and after-hours building access – initial suspicion was high.
- 10 The theft involved a foam replica skillfully painted with restoration-grade spray paint.
- 11 Bram has all four requirements: elevated system privileges, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 00:45 and 03:30).

Answer Key – Deduction Mysteries

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

Case 01 E) Nikolai

- Four requirements (elevated system privileges, clean-room or vault clearance, presence between 02:15 and 05:45, authorization to handle the item) plus a unique technical trace narrow the case.
 - Zara appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 02 undefined) Kalisa

- Four requirements (advanced restoration training, clean-room or vault clearance, presence between 02:45 and 06:15, familiarity with the security routing) plus a unique technical trace narrow the case.
 - Kasper appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 D) Roksana

- Four requirements (advanced restoration training, after-hours building access, presence between 02:30 and 05:15, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - Kerensa appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 F) Frida

- Four requirements (elevated system privileges, clean-room or vault clearance, presence between 02:00 and 05:00, authorization to handle the item) plus a unique technical trace narrow the case.
 - Cosima appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 E) Dario

- Four requirements (elevated system privileges, administrator credentials, presence between 01:30 and 05:30, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - Florian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 A) Bram

- Four requirements (elevated system privileges, after-hours building access, presence between 00:45 and 03:30, possession of the specific tool used) plus a unique technical trace narrow the case.
- Tariq appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.