

Deduction Mysteries

CASE 01

A formula draft was swapped from the centrifuge bay of Helix Bioresearch between 16:40 and 18:15. The operation required required certifications. Five people had any plausible connection: Yara (graduate student), Marisol (postdoctoral researcher), Cedric (operations manager), Eitan (equipment manager), Mei (visiting scientist).

Q Who swapped the formula draft?

1. The centrifuge bay is normally accessed only via clean-room access, and Mei's biohazard clearance was used at 16:40.
2. The sample tampering required required certifications – only Eitan and Mei have this among the five.
3. Marisol's freezer key was not used at any point during the window.
4. Cedric was at the front desk the entire window during the window.
5. Mei claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
6. Marisol was documented by the sample log in a different building during the window.
7. Eitan's sample log confirms they were at the external office from 16:40 to 18:15.

CASE 02

The prototype specifications were taken from the CEO office of Cedarstone Inc between 15:20 and 18:00. The operation required specialized access privileges. Five people had any plausible connection: Akhil (legal counsel), Nizar (security officer), Caelan (HR director), Mira (executive assistant), Nikolai (IT administrator).

Q Who took the prototype specifications?

1. Caelan was documented by the security badge log in a different building during the window.
2. The corporate theft required specialized access privileges – only Nikolai and Nizar have this among the five.
3. The CEO office is normally accessed only via document-room code, and Nizar's VPN access was used at 15:20.
4. Mira was documented by the door access record in a different building during the window.
5. Akhil was at a scheduled training course during the window.
6. Nizar claims to have been working alone in their office during the window. No supporting evidence has been provided.

CASE 03

A client database was taken from the server room of Cedarstone Inc between 15:20 and 18:10. The operation required specialized access privileges. Five people had any plausible connection: Zephyr (HR director), Yvonne (security officer), Etienne (legal counsel), Mei (records clerk), Meriel (IT administrator).

Q Who took the client database?

1. Yvonne claims to have been out for a long break during the window. No supporting evidence has been provided.
2. The server room is normally accessed only via admin credentials, and Yvonne's admin credentials was used at 15:20.
3. The corporate theft required specialized access privileges – only Etienne and Yvonne have this among the five.
4. Mei's VPN access was not used at any point during the window.
5. Mei was at the external facility the entire window during the window.
6. Meriel was at the main office the entire window during the window.

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CASE 04

A championship ring was taken from the trophy display case of Saint-Clair Field House between 16:20 and 18:45. The operation required required certifications. Five people had any plausible connection: Kenji (team captain), Ula (head coach), Anand (rookie player), Hasan (assistant coach), Jian (facilities manager).

Q Who took the championship ring?

1. Hasan was at a scheduled training course during the window.
2. Ula was at a scheduled external meeting during the window.
3. The theft required required certifications – only Kenji and Jian have this among the five.
4. Anand was at a scheduled external meeting during the window.
5. Jian claims to have been working alone in their office during the window. No supporting evidence has been provided.
6. Hasan's locker code was not used at any point during the window.
7. The trophy display case is normally accessed only via facility badge, and Jian's facility badge was used at 16:20.

CASE 05

A silver chalice was taken from the second-floor gallery of Aldworth Collection between 13:40 and 15:10. The operation required required certifications. Five people had any plausible connection: Lucia (exhibition designer), Diallo (art restorer), Tatum (archivist), Daphne (janitor), Penelope (curator).

Q Who took the silver chalice?

1. Daphne was at the main office the entire window during the window.
2. Penelope was documented by the elevator log in a different building during the window.
3. Tatum was at a scheduled external meeting during the window.
4. The second-floor gallery is normally accessed only via elevator access, and Lucia's keycard was used at 13:40.
5. Lucia claims to have been out for a long break during the window. No supporting evidence has been provided.
6. The theft required required certifications – only Lucia and Diallo have this among the five.
7. Diallo's door sensor confirms they were at the remote facility from 13:40 to 15:10.

CASE 06

An expensive welding rod was taken from the manager's office of Aldermarsh Auto Works between 13:20 and 16:45. The operation required expert knowledge of the system. Five people had any plausible connection: Tess (shop manager), Cosima (parts clerk), Yara (welder), Aurora (electrician), Hakim (apprentice).

Q Who took the expensive welding rod?

1. Cosima was at the external facility the entire window during the window.
2. Tess's parts-room audit confirms they were at the external office from 13:20 to 16:45.
3. The manager's office is normally accessed only via tool-crib key, and Hakim's shop key was used at 13:20.
4. Yara was at the external facility the entire window during the window.
5. Aurora was documented by the shop camera in a different building during the window.
6. The theft required expert knowledge of the system – only Tess and Hakim have this among the five.
7. Hakim claims to have been out for a long break during the window. No supporting evidence has been provided.

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CASE 07

A prototype assembly was taken from the main shop floor of Aldermarsh Auto Works between 16:40 and 18:30. The operation required required certifications. Five people had any plausible connection: Phaedra (shop manager), Elara (painter), Esme (parts clerk), Tess (quality inspector), Octavia (electrician).

Q Who took the prototype assembly?

1. The theft required required certifications – only Tess and Phaedra have this among the five.
2. Octavia was at a scheduled conference call during the window.
3. Tess's shop camera confirms they were at the external office from 16:40 to 18:30.
4. Phaedra claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
5. Elara was documented by the parts-room audit in a different building during the window.
6. Esme was at a scheduled training course during the window.
7. The main shop floor is normally accessed only via parts-room code, and Phaedra's manager key was used at 16:40.

CASE 08

A SSL certificate was extracted from the code review room of Atlas Cloud between 14:10 and 16:15. The operation required specialized access privileges. Five people had any plausible connection: Priya (intern), Gunnar (senior engineer), Tess (support lead), Roksana (CTO), Odell (data scientist).

Q Who extracted the SSL certificate?

1. Tess was at a scheduled conference call during the window.
2. The code review room is normally accessed only via SSH key, and Odell's SSH key was used at 14:10.
3. Roksana's MFA token log confirms they were at the off-site location from 14:10 to 16:15.
4. Gunnar's MFA device was not used at any point during the window.
5. Gunnar was at the external facility the entire window during the window.
6. The data theft required specialized access privileges – only Roksana and Odell have this among the five.
7. Priya was documented by the badge swipe in a different building during the window.

CASE 09

A team trophy was taken from the equipment room of Northgate Athletic Club between 14:20 and 17:00. The operation required expert knowledge of the system. Five people had any plausible connection: Dario (referee), Dimah (athletic trainer), Stellan (assistant coach), Aaliyah (star player), Cosima (team captain).

Q Who took the team trophy?

1. Dimah claims to have been working alone in their office during the window. No supporting evidence has been provided.
2. The equipment room is normally accessed only via equipment-room key, and Dimah's facility badge was used at 14:20.
3. Stellan's badge log confirms they were at the remote facility from 14:20 to 17:00.
4. The theft required expert knowledge of the system – only Stellan and Dimah have this among the five.
5. Dario was at the main office the entire window during the window.
6. Aaliyah was documented by the facility camera in a different building during the window.
7. Cosima was documented by the facility camera in a different building during the window.

Answer Key – Deduction Mysteries

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

Case 01 E) Mei

- ☒ The sample tampering required required certifications.
 - ☒ Yara lacks the required skill – cleared.
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Case 02 A) Nizar

- ☒ The corporate theft required specialized access privileges.
 - ☒ Akhil lacks the required skill – cleared.
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Case 03 C) Yvonne

- ☒ The corporate theft required specialized access privileges.
 - ☒ Zephyr lacks the required skill – cleared.
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Case 04 E) Jian

- ☒ The theft required required certifications.
 - ☒ Ula lacks the required skill – cleared.
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Case 05 C) Lucia

- ☒ The theft required required certifications.
 - ☒ Tatum lacks the required skill – cleared.
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Case 06 B) Hakim

- ☒ The theft required expert knowledge of the system.
 - ☒ Cosima lacks the required skill – cleared.
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Case 07 D) Phaedra

- ☒ The theft required required certifications.
 - ☒ Elara lacks the required skill – cleared.
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Case 08 A) Odell

- ☒ The data theft required specialized access privileges.
 - ☒ Priya lacks the required skill – cleared.
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Case 09 C) Dimah

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