

Hybrid MCT



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New Test Protocols

- **Hybrid MCT**
 - **Hybrid DLC**
 - **DLC2**
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- Hybrid = optimized for polygraph and ocular motor activity
 - Hybrid = Y/N questions and/or T/F Statements
 - Utilize smart algorithm-based scoring

EyeDetect Testing Protocols

Protocols	Total # Topics	Relevant Topics	Primary Usage	Secondary Usage	Examples
DLC Hybrid DLC DLC2	1	1R & DL	Diagnostic	Screening	R1: Sexual assault allegation R2 (DL): In your entire life...
RCT	2	1R & CQ	Screening	Diagnostic	R1: Steal money from company R2 (CQ): Counterfeit money
MCT Hybrid MCT Audio MCT	3 or 4	2R & CQ	Screening	Diagnostic	R1: Use illegal drugs R2: Commit a serious crime R3 (CQ): Terrorism
		3R & CQ	Screening	Diagnostic	R1: Use illegal drugs R2: Commit a serious crime R3: Steal item valued over \$300 R4 (CQ): Terrorism

Accuracy

	Protocols	Accuracy
EyeDetect	DLC	88%
	DLC2 (7% INC)	87%
	Relevant Comparison Test (RCT)	86%
	Multi-Issue Comparison Test (MCT 3R / MCT 4R)	88%
	Audio MCT (AMCT 3R / AMCT 4R)	86%
EyeDetect+	Hybrid DLC (8% INC)	89%
	Hybrid MCT	91%

Hybrid MCT

Hybrid MCT

Four relevant topics

- R1: Steal \$20
- R2: Steal diamond ring
- R3: Steal cell phone
- R4: Steal AirPods



2 Tests 10 Sessions

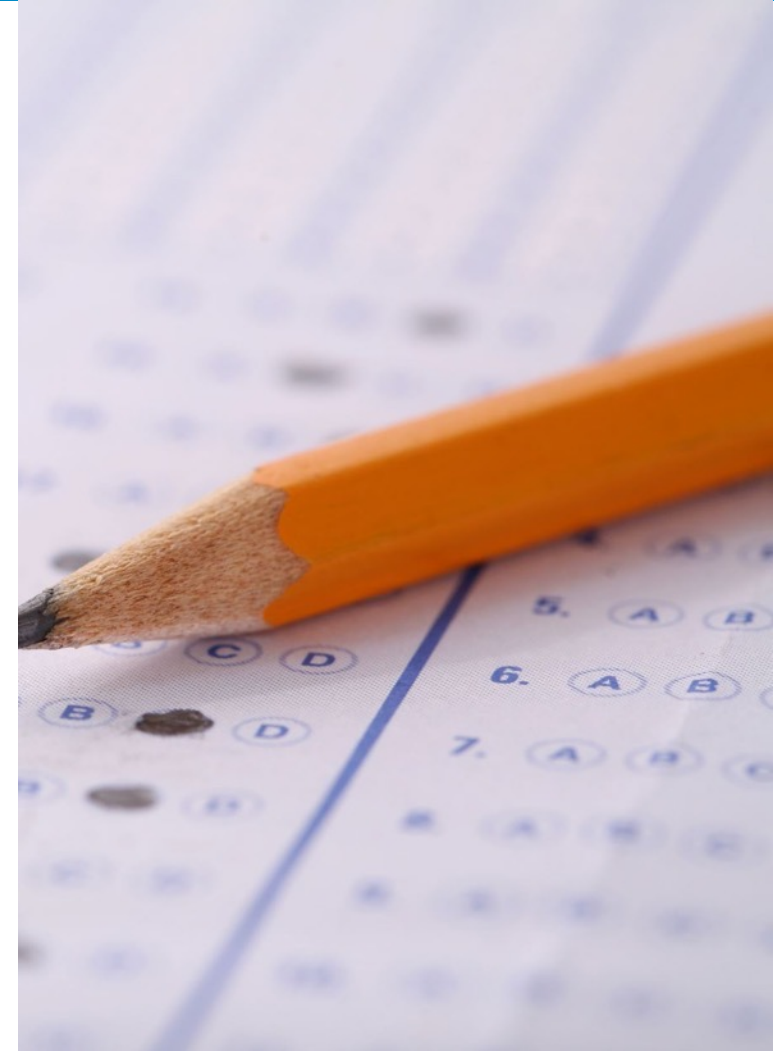
Two Tests within a test: Y/N and T/F

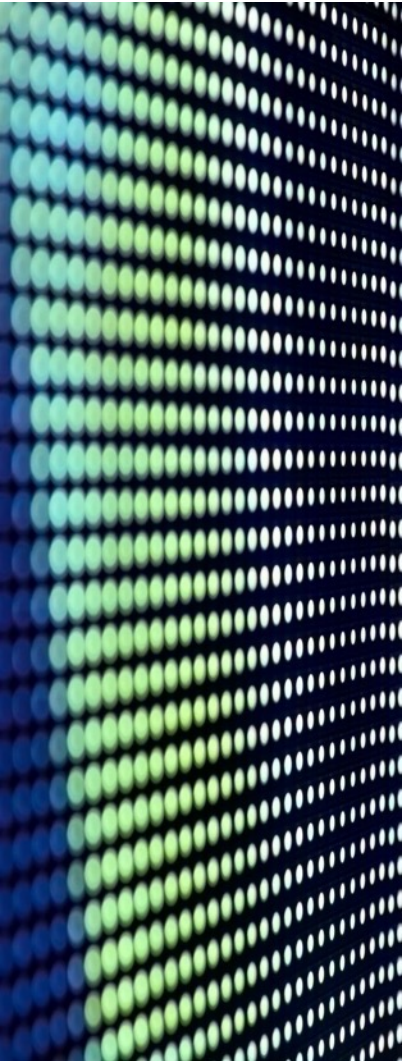
Sessions

- Session 1 — Practice test Yes/No
 - Session 2 — RQ and Neutral Yes/No
 - Session 3 — Math Yes/No
 - Session 4 — RQ and Neutral Yes/No
 - Session 5 — Math Yes/No
 - Session 6 — RQ and Neutral Yes/No
 - Session 7 — Practice test True/False
 - Session 8 — RQ True/False
 - Session 9 — Math T/F
 - Session 10— RQ True/False
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- Approx. 45 minutes

Instructions for 1st part

- Y/N questions about the relevant topics:
 - AirPods from red Toyota Camry (R4)
 - \$20 from a secretary's backpack (R1)
 - Cell phone from an office (R3)
 - Diamond ring from a desk (R2)
- Hear and see test questions on screen.
- Practice test with Y/N questions.





First Part: Y/N Questions

- Diamond ring (R2) and \$20 (R1). R2, R1, N
- AirPods (R4) and cell phone (R3). R4, R3, N
- Simple math test Y/N math
- AirPods (R4) and diamond ring (R2). R4, R2, N
- Cell phone (R3) and \$20 (R1). R3, R1, N
- Simple math test Y/N math
- AirPods (R4) and \$20 (R1). R4, R1, N
- Cell phone (R3) and diamond ring (R2). R3, R2, N

Question Format

- Yes/No questions presented on screen and heard - read by digital voice
- 16 relevant, non-timed questions
- Examinee responds -> 22-seconds to recover.
- 4 questions for each topic: 3 No and 1 Yes
- Recovery for math questions is 16 seconds.



R1 Questions

Are you guilty of the theft of the twenty dollars?

No

Did you steal the twenty dollars?

No

Are you innocent of stealing the twenty dollars?

Yes

Did you take the twenty dollars from the wallet?

No

R2 Questions

Are you guilty of the theft of the diamond ring?

No

Did you steal the diamond ring?

No

Are you innocent of stealing the diamond ring?

Yes

Did you take the diamond ring from the office?

No

R3 Questions

Are you guilty of the theft of the cell phone?

No

Did you steal the missing cell phone?

No

Are you innocent of stealing the cell phone?

Yes

Did you take the cell phone from the office?

No

R4 Questions

Are you guilty of the theft of the AirPods?

No

Did you steal the AirPods from the car?

No

Are you innocent of stealing the AirPods?

Yes

Did you take the AirPods from the car?

No

Instructions for 2nd part

- Second part of test uses T/F Statements.
- Statements about relevant topics...
 - **AirPods** from red Toyota Camry (R4)
 - **\$20** from a secretary's backpack (R1)
 - **Cell phone** from an office (R3)
 - **Diamond ring** from a desk (R2)
- *Answer quickly and accurately.*
- *Read test questions on screen (no digital voice).*
- Practice test with T/F questions.

R1 Questions

- I am the person who stole the twenty dollars. (F)
- The secretary's twenty dollars were stolen by me. (F)
- I admit to taking the stolen twenty dollars. (F)
- I am innocent of stealing the twenty dollars. (F)

- I am not the person who stole the \$20. (T)
- I did not steal the secretary's twenty dollars. (T)
- The reason the \$20 is gone is because I stole it. (T)
- The cash in the wallet was not stolen by me. (T)



R2 Questions

- I admit to stealing the diamond ring from the desk. (F)
- I stole the diamond ring from the desk drawer. (F)
- The diamond ring in the desk was stolen by me. (F)
- I did not take the diamond ring from the desk. (F)

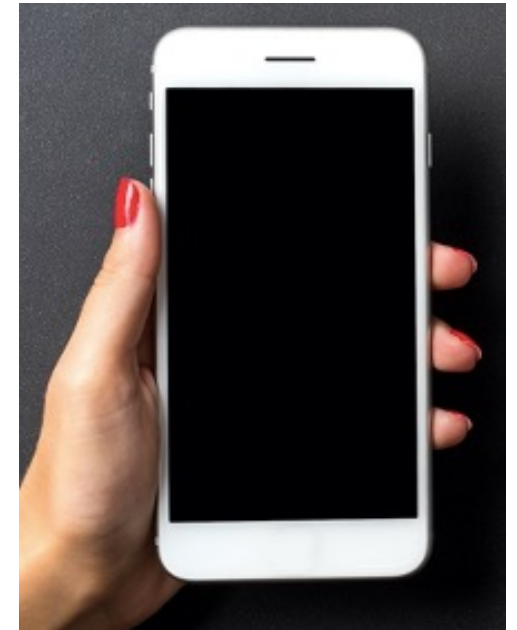
- I am innocent of the theft of the diamond ring. (T)
- I did not steal the diamond ring from the desk. (T)
- The diamond ring was not stolen from the desk by me. (T)
- I did not take the missing diamond ring from the desk. (T)



R3 Questions

- I am the person who stole the cell phone. (F)
- The missing cell phone was stolen by me. (F)
- The cell phone was missing because I stole it. (F)
- I did not steal the cell phone from the office. (F)

- I am innocent of the theft of the cell phone. (T)
- I did not steal that missing cell phone. (T)
- I admit to stealing the missing cell phone. (T)
- The missing cell phone was not stolen by me. (T)



R4 Questions

- I stole the AirPods from the red Camry. (F)
- The missing AirPods were stolen by me. (F)
- I am guilty of the theft of the AirPods. (F)
- I did not take the AirPods from the Toyota Camry. (F)

- I am innocent of the theft of the AirPods. (T)
- I did not steal the AirPods from a car in the parking lot. (T)
- The AirPods went missing because I took them. (T)
- The AirPods were not stolen from the car by me. (T)



Test Manager



Test Manager

- Same concepts learned for MCT Test
- Combination of Yes/No and True/False
- Balance required

Thank you

