TEST YOUR KNOWLEDGE
INSPECTION & TESTING



REVISION GUIDE BY LEWIS BLAKEMORE
Wigan & Leigh College

INSPECTION & TESTING

Inspection and testing relies on a solid understanding of current standards, procedures and regulations – and staying up to date matters more than ever.

Test your knowledge with these multiple-choice questions. Good luck!

Q1	What is the primary purpose of electrical inspection?	Ans.
A	To increase electricity usage	
B	To ensure safety and compliance	✗
C	To reduce electricity bills	
D	To improve property value	

Q3	What does BS 7671 refer to in the electrical industry?	Ans.
A	Regulations for electrical safety in homes	
B	The IET Wiring Regulations	✗
C	A guide to product installation	
D	A standard for testing cables	

Q2	Which instrument is commonly used to measure current?	Ans.
A	Multimeter	
B	Ammeter	✗
C	Insulation Resistance Tester	
D	Voltmeter	

Q4	What is the unit of electrical resistance?	Ans.
A	Ohm	✗
B	Ampere	
C	Volt	
D	Watt	

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Q5	Which colour should the Neutral wire be in a standard UK electrical system?	Ans.
A	Green and yellow	
B	Red	
C	Blue	✗
D	Black	

Q6	What does the term "prospective fault current" refer to?	Ans.
A	The current flow during normal operation	
B	The maximum current a circuit can safely handle	
C	The potential short-circuit current	✗
D	The resistance of the fault loop	

Q7	Which document should be completed after testing an electrical installation?	Ans.
A	Risk Assessment	
B	Maintenance Log	
C	Certificate of Conformity	
D	Electrical Installation Certificate	✗

Q8	What is the purpose of an RCD?	Ans.
A	To measure voltage	
B	To protect against overcurrent	
C	To detect earth faults	✗
D	To monitor circuit resistance	

TEST YOUR KNOWLEDGE
EARTHING SYSTEMS



EARTHING SYSTEMS

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Understanding the main types of earthing systems helps electricians work safely, confidently and in line with current requirements.

Test your knowledge with these multiple-choice questions. Good luck!

Q1	What is the main purpose of an earthing system in an electrical installation?	Ans.
A	To protect against voltage drops	
B	To ensure proper circuit functionality	
C	To prevent overloading	
D	To provide safety by directing fault currents to the ground	✕

Q2	In a TT earthing system, what is the primary earthing connection?	Ans.
A	The neutral conductor	
B	A local earth electrode	✕
C	The transformer housing	
D	The consumer unit	

Q3	What is the acceptable maximum earth electrode resistance for a TT system?	Ans.
A	100 ohms	
B	200 ohms	✕
C	300 ohms	
D	400 ohms	

Q4	What colour is the earth wire in modern UK wiring?	Ans.
A	Red	
B	Yellow	
C	Green and yellow	✕
D	Blue	

Q5	Which regulation covers earthing systems in UK electrical installations?	Ans.
A	BS 7671	✗
B	BS 1363	
C	BS 2754	
D	BS 5266	

Q8	Which earthing system does not have a direct connection to earth at the consumer end?	Ans.
A	TN-C-S	
B	IT	✗
C	TT	
D	TN-S	

Q6	In a TN-C-S system, where is the neutral connected to earth?	Ans.
A	At the appliance	
B	At the transformer	
C	At the substation	
D	At the consumer's intake position	✗

Q9	In a TN-S system, how is the earth provided?	Ans.
A	Through the neutral conductor	
B	Through the metallic sheath of the supply cable	✗
C	Through a separate electrode	
D	Through the consumer's earth rod	

Q7	What does the "T" in a TT earthing system stand for?	Ans.
A	Transformer	
B	Tethered	
C	Terra	✗
D	Terminal	

Q10	What is the primary risk if earthing is not done properly?	Ans.
A	Voltage fluctuations	
B	Electrical shock	✗
C	Increased energy consumption	
D	Overloaded circuits	

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