The invisible killer

Electrical safety in the food and drink industry

ELECTRICIANS’ QUIZ

Tick one answer unless otherwise indicated

1
What is electricity?
A  A pressure difference
B  Power in a circuit
C  Resistance in a circuit
D  A form of energy

2
According to HSE research, which age group of electricians is most at risk of a fatality from an electrical accident?
A  56–65
B  30–41
C  40–55
D  21–30

3
According to the DVD, what are the three typical consequences of electrical accidents?
A  Burns, shock, disruption
B  Shock, burns, fire
C  Fire, shock, disruption
D  Burns, disruption, financial penalties

4
What proportion of electrical accidents is typically caused by inadequate safe working practices?
A  29%
B  19%
C  68%
D  13%

5
Legally, who should formally assess and authorise electrical workers (including contractors) to work on site?
A  Employers and/or those in control of the site
B  The appointed electrical duty holder
C  Employees
D  Electricians

6
What is the principal requirement when working with electricity?
A  Following the safe working procedures
B  Working dead
C  Being accompanied when working live
D  Having the right tools for the job

7
When should an electrical permit to work dead be issued? (tick all correct answers)
A  When a complex isolation is being made
B  Whenever a circuit has been isolated and made safe
C  When an authorised competent person is isolating for someone else
D  When there is more than one person working on the equipment

8
You are working live when carrying out an isolation until you:
A  De-energise the part of the system being worked on
B  Attempt re-energisation
C  Secure the isolation point
D  Have proved the system dead
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Electrical safety in the food and drink industry

ELECTRICIANS’ QUIZ
Tick one answer unless otherwise indicated

9
What must always be done before live work is undertaken?
A A risk assessment
B Provide PPE
C Ensure the right tools are available
D No action required

10
Select three control measures which must be put in place before live work is undertaken:
A Prevent unauthorised people from entering the area
B Make sure the area is clean, dry, tidy and well lit
C Consider vehicular traffic in the area
D Consider if the work is being undertaken at height
E Ensure the right equipment is available to do the job safely
F Ensure the right PPE is available and specified
G Consider if the work needs an accompanying person
H Consider the condition of, and power in, the panel and whether there are any rogue electrical supplies

11
When are residual current devices (RCDs) recommended?
A For equipment used in dusty environments
B For equipment used in wet environments
C For equipment used in cool environments
D For equipment used in food factories

12
An RCD would trip if:
A A cable shorted phase to neutral
B Live parts tracked to earth
C A motor mechanically overloaded
D Too many appliances were plugged into a socket circuit

13
Supplementary equipotential bonding is intended to ensure that in the event of a fault:
A Dangerous fault currents go to earth safely rather than through the body
B The supply is rapidly disconnected, hence reducing the duration of shock
C The level of indirect contact shock voltage is virtually zero
D The level of fault current is reduced to a minimum

14
Short circuit protection may be provided by:
A Residual current circuit breakers
B High rupturing capacity fuses
C Enclosures or barriers
D Earthed equipotential bonding and automatic disconnection

15
After undertaking electrical work, what is the one essential thing you must do?
A Tell your manager you have finished the job
B Let the area supervisor know the work is complete
C Leave the area safe for you and your colleagues
D Complete the necessary paperwork
# The invisible killer

**Electrical safety in the food and drink industry**

## ELECTRICIANS’ QUIZ – ANSWERS

The correct answers are highlighted

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- **A** A risk assessment
- B Provide PPE
- C Ensure the right tools are available
- D No action required

### 10
Select three control measures which must be put in place before live work is undertaken:

Any combination of the following:

- A Prevent unauthorised persons from entering the area
- B Make sure the area is clean, dry, tidy and well lit
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