Electrical Safety – The Hidden Perils
Growing your Fire and Security Business

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Electrical Safety – The Hidden Perils..

• What can you work on when installing a system?
• Safe Isolation – Doing the job safely..
• Update in wiring regulations that effect installers.
• Represents the interests of electrical, electro-technical and other engineering contractors, at regional, national and European level.

• 2,800 member firms with a combined turnover exceeding £6 billion annually, range across the domestic and commercial sectors made up of micro, SME to national contractors - employing thousands.

• ECA / FSA members are rigorously audited for both business and technical capabilities – with ongoing surveillance.

• ECA members provide the highest level of assurance to clients.

UK’s largest Trade Association for electro technical engineering contractors
The UK’s leading trade association for the Fire, emergency & Security Systems Industry. Plus alarm receiving centres (ARCs) Remote Video Response Centres (RVRC’s).

More than just a badge...
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Working in partnership..
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Standards & Legislation..
Regulation 16 – Persons to be competent to prevent danger and injury..

No person shall be engaged in any work activity where technical knowledge or experience is necessary to prevent danger or, where appropriate, injury, unless he possesses such knowledge or experience, or is under such degree of supervision as may be appropriate having regard to the nature of the work.
Notifiable work:

- Installation of a new circuit.
- Replacement of a consumer unit.
- Any addition and alteration to an existing circuit within a special location.

Installing fixed equipment is within the scope of Part P but only notifiable if it involves installing a new circuit.
Safely connecting your system..

Provision of information..

Sufficient information should be provided to ensure that people can operate, maintain or alter an electrical installation with reasonable safety.
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Safely connecting your system..

Evidence of this cant be trusted..
Safely connecting your system.

Safe Isolation Procedures

Seek permission to isolate

Verify equipment /circuit to be isolated Is actually operational

Isolate the circuit, lock off and fit warning notices

Locate & identify the circuit to be isolated

Select appropriate voltage indicator

Verify equipment/circuit is isolated

Re-check voltage indicator
Safely connecting your system..
Carrying out an addition or alteration on an electrical installation:

- Have the relevant skill, knowledge and experience.
- Have the relevant insurances to cover the scope of work.
- Be fully conversant with BS 7671 (Requirements for electrical installation)
- For work within dwellings (Part P) – Registered under a competent person scheme.
- Have the relevant test equipment in order to certify the work.
- Complete a Minor Works Certificate or Electrical Installation Certificate.
BS 7671 applies to the installation of all cables, not just LV cables:

- Wiring for Fire Alarm Systems.
- Data cabling.
- TV Coaxial cabling.
- Other Specialist cabling.
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Premature collapse of cables..

- Any wiring in escape route should be protected against premature collapse in event of fire.
- Essentially restricting the use of PVC trunking / conduit, plastic clips or cable ties as the sole means of support.

**Escape Route.** Path to follow for access to a safe area in the event of an emergency.
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Premature collapse – to prevent this..
To conclude..

- The need to be competent – understand the risks associated with electricity. (skill, knowledge and experience)
- Keep a record of your employees competence and ensure they receive regular CPD.
- Understand and follow correct isolation procedures.
- Have the right tools and testing equipment for the job.
Get in touch and find out how the FSA can help transform your business

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