


FSA

Fire & Security Association

A specialist group of the
Electrical Contractors' Association

ECA

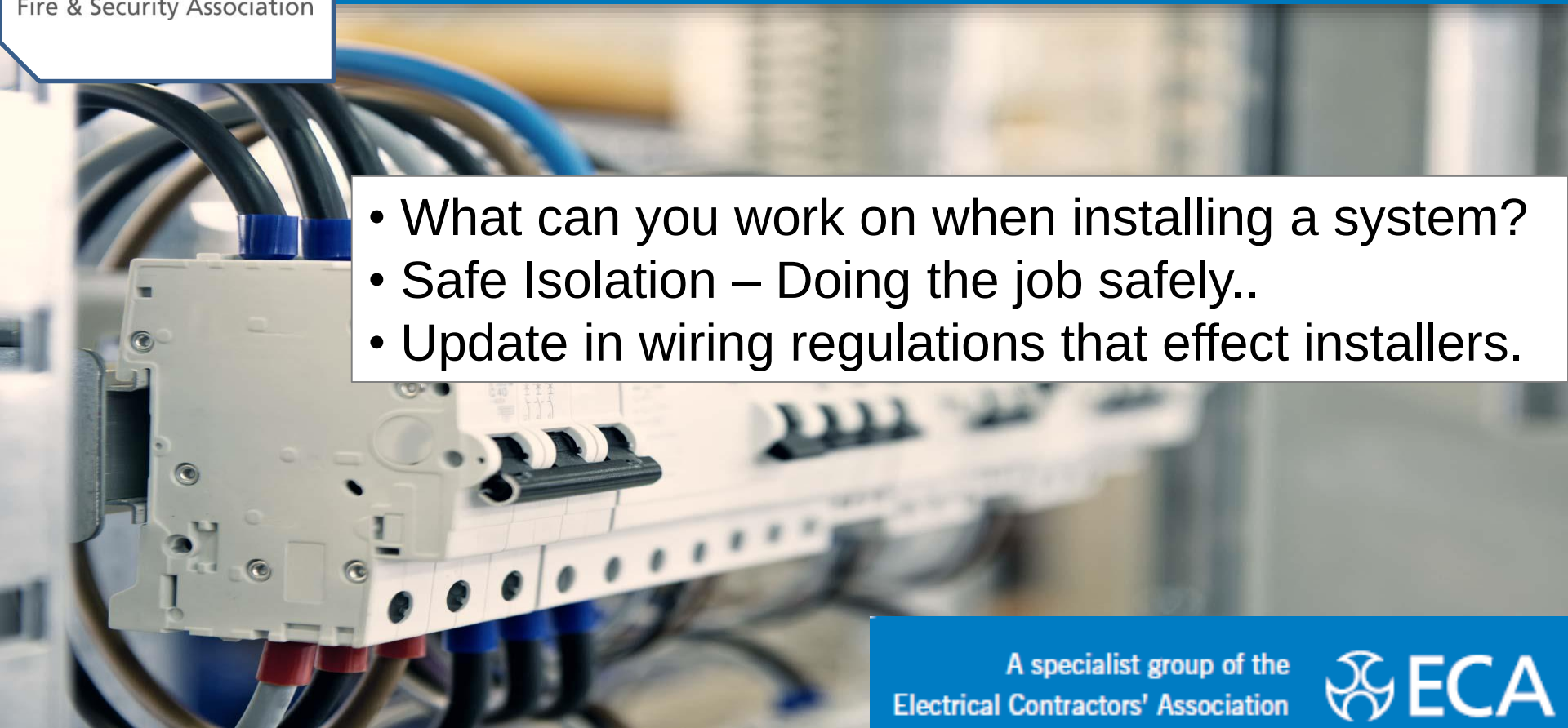

# Electrical Safety – The Hidden Perils

# Steve Martin – Head of Specialist Groups


E: steve.martin@eca.co.uk
T: 020 7313 4807
M: 07866 487593

@ecastevemartin


# 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.

FSA
Fire & Security Association

A specialist group of the
Electrical Contractors' Association
ECA

# The Electrical Contractors' Association

- ***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.***

FSA

Fire & Security Association

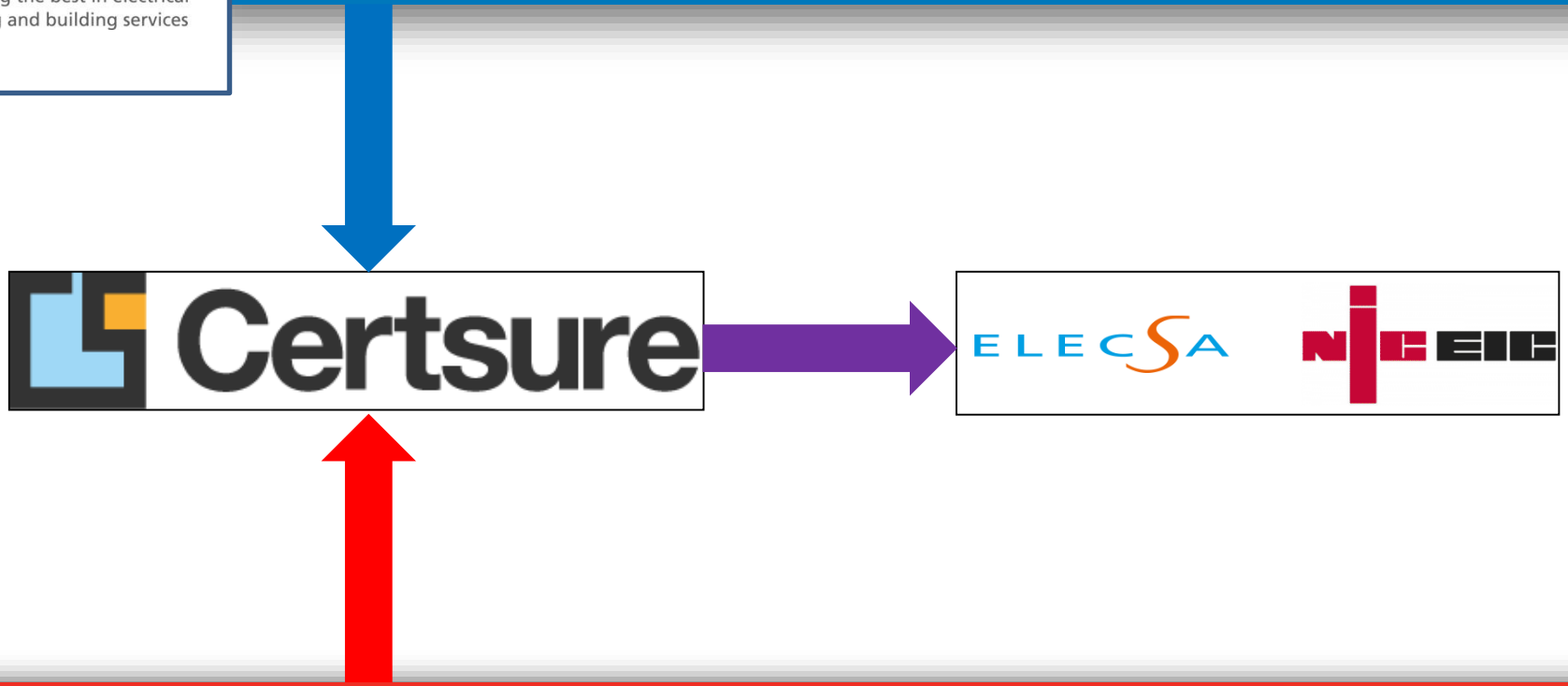
The UK's leading trade association for the Fire, emergency & Security Systems Industry. Plus alarm receiving centres (ARCs) Remote Video Response Centres (RVRC's).

# More than just a badge...

A specialist group of the Electrical Contractors' Association ECA

ECA
Representing the best in electrical engineering and building services

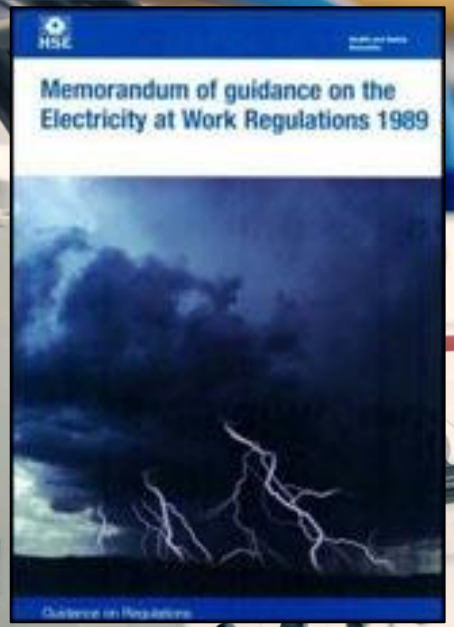
# Working in partnership..

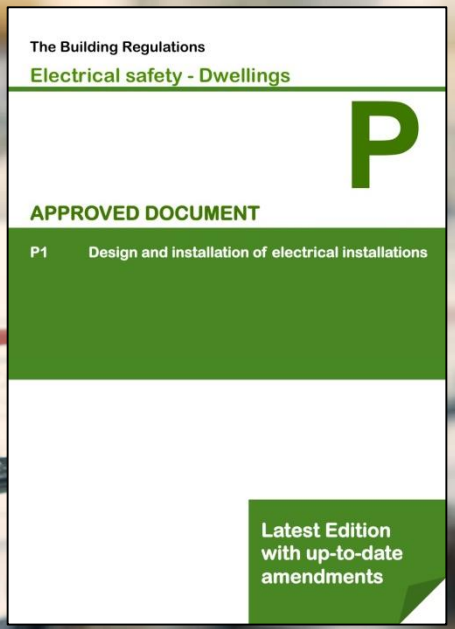


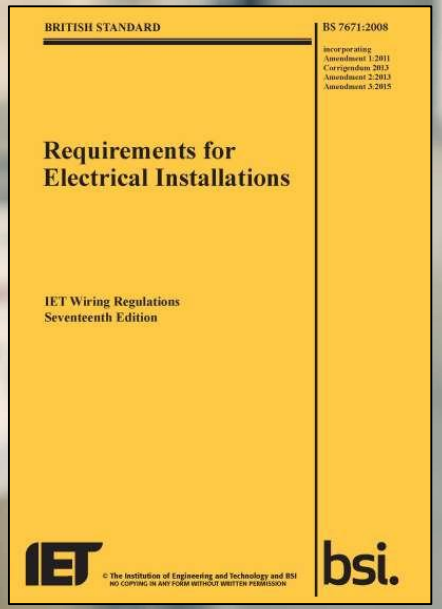

Electrical Safety First

FSA
Fire & Security Association

# Standards & Legislation..




A specialist group of the Electrical Contractors' Association

ECA

# Electricity at Work Regulations..

*Regulation 16 – Persons to be competent to prevent danger and injury..*

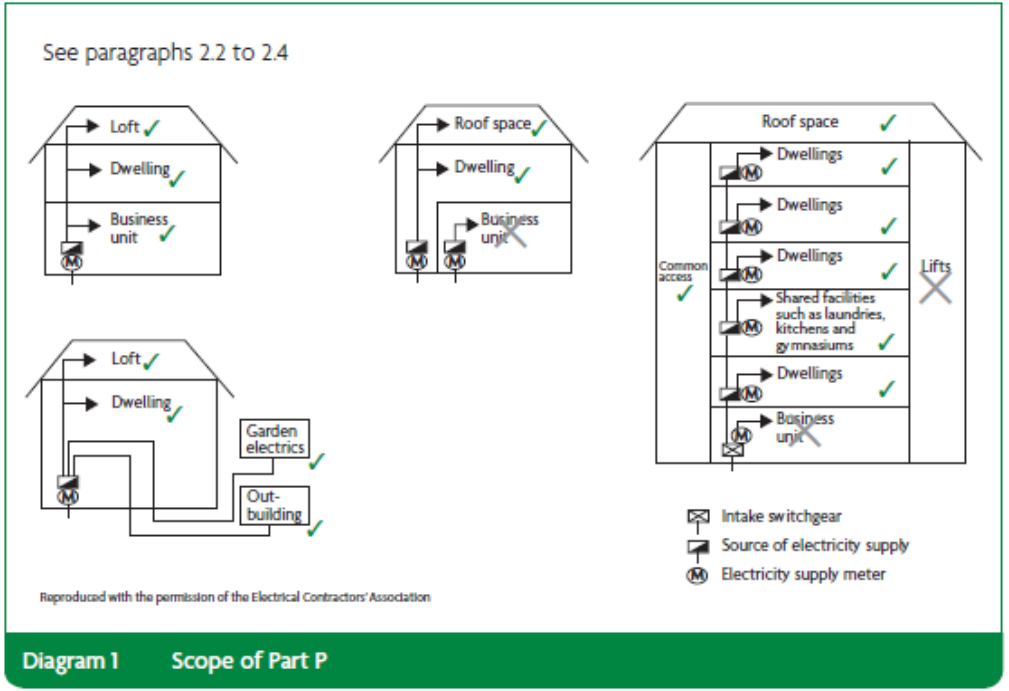
*No person shall be engaged in any work activity where technical knowledge or experience is necessary to prevent* **danger** *or, where appropriate,* **injury**, *unless he possesses such* ***knowledge*** *or* ***experience***, *or is under such degree of supervision as may be appropriate having regard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

# Electrical Work within dwellings..

Notifiable work:

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

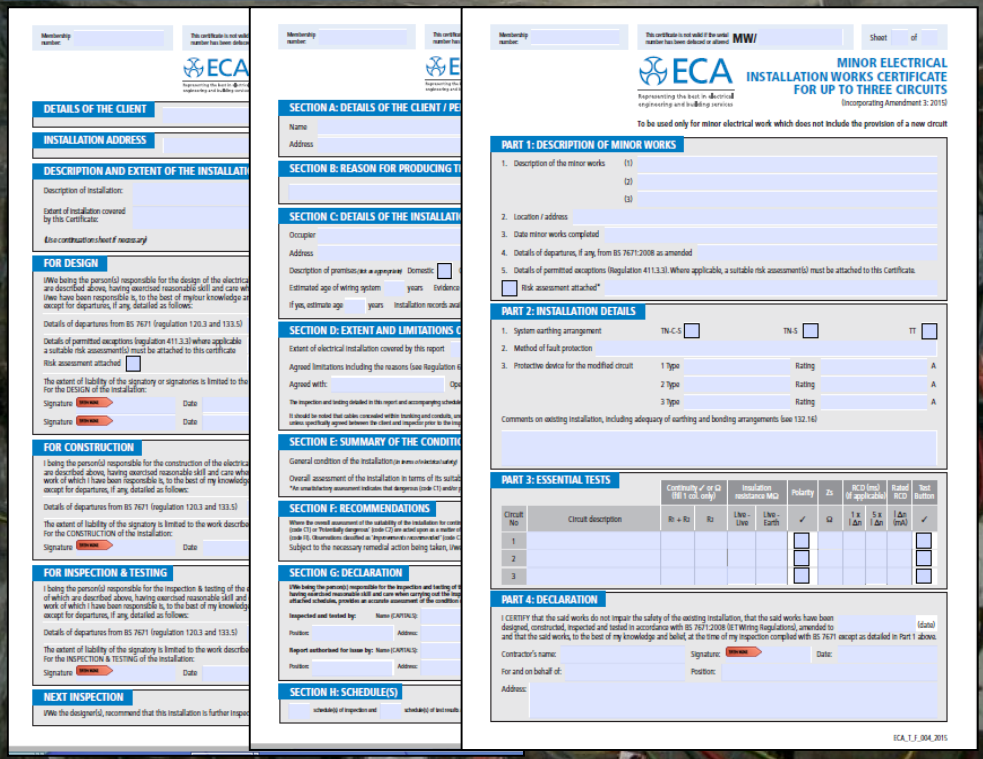
Installing fixed equipment is within the scope of Part P but only notifiable if it involves installing a new circuit.




A specialist group of the Electrical Contractors' Association

FSA
Fire & Security Association

# 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..

A specialist group of the Electrical Contractors' Association

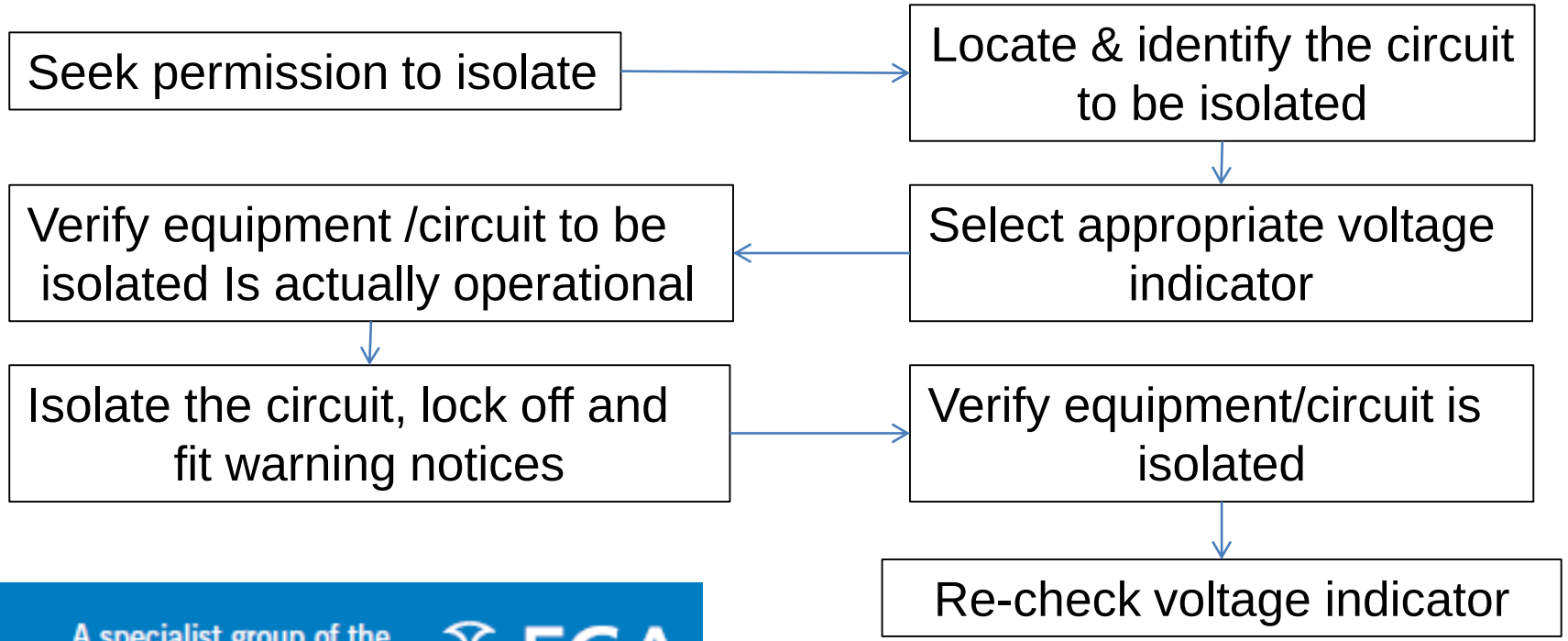
ECA

# Safely connecting your system..


Evidence of this cant be trusted..

# Safely connecting your system..

## Safe Isolation Procedures



FSA
Fire & Security Association

# Safely connecting your system..



A specialist group of the
Electrical Contractors' Association
ECA

# 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

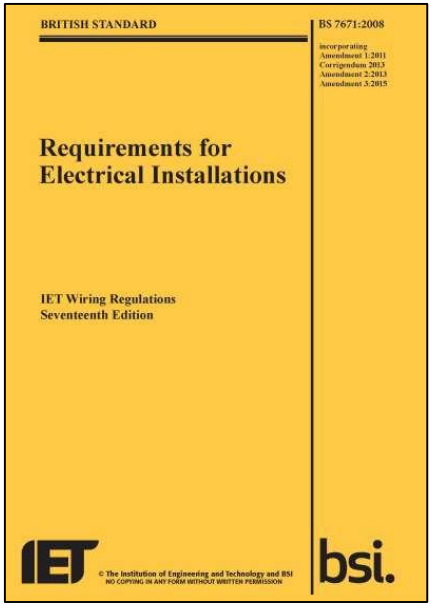
FSA Fire & Security Association

A specialist group of the Electrical Contractors' Association ECA

# Premature collapse of cables..

BS 7671 applies to the installation of all cables, not just LV cables:

- Wiring for Security Systems.
- Wiring for Fire Alarm Systems.
- Data cabling.
- TV Coaxial cabling.
- Other Specialist cabling.



# 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.*

FSA
Fire & Security Association

# Premature collapse – to prevent this..

A specialist group of the
Electrical Contractors' Association

ECA

FSA
Fire & Security Association

# 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.

FSA

Fire & Security Association

Get in touch and find out how the FSA can help transform your business

T. 020 7313 4807

E. enquiries@fireandsecurityassociation.co.uk

**www.FireandSecurityAssociation.co.uk**

Working in partnership with SELECT

A specialist group of the Electrical Contractors' Association ECA