

2400 Design Erection & Verification: Isolation, Switching & Control

The exam may well have one (or two) questions that are intended to ensure you have a thorough knowledge of the Isolation and switching procedures &/or the different types of isolation and switching required for certain installations or areas.

This may be asked in the form of Designing the switching and isolation arrangements for a type of Installation (be it indoor or outdoor – commercial or industrial, etc) – or have you identify the switching and isolation arrangements for an existing installation.

With regard to the attached question consider the type & amount of research that is essential to answer a question at this level – within a 16-18 minute time frame...

Firstly we must pay heed to the definitions of each...

Isolation: See definitions – A function intended to cut off every section of the installation from the supply

Switching: a mechanical device capable of making & braking a load under normal circuit conditions

Emergency Switching: Intended to remove unexpected danger as quickly as possible.

Mechanical Maintenance: The changing of non-electrical parts (ie: lamps)

Overload Protection : Over-current protection in a healthy circuit.

Then look in some detail at how the Regulations approach these areas...

Refer to Chapter 46 –

Refer to Chapter 44

Refer to Chapter 43.

And finally remember to keep the answer focused clearly on the actual question (don't ramble), & stay concise while covering as many relevant points as possible...