Practical

HV CABLE JOINTING & TERMINATIONS
for Engineers & Technicians

YOU WILL LEARN HOW TO:

• The basic principles of cable jointing and terminations
• Construction of electrical power cables, different types of cables for various voltage ratings and manufacturing aspects
• Different types of connectors and connection methods
• Different methods of cable terminations and jointing and choosing an appropriate type for every application
• Importance of stress control and methods of stress redistribution in joints and terminations
• Importance installation aspects in cable joints and terminations
• International and national standards applicable
• Type testing and routine testing
• Failures, failure analysis and failure prediction
• Future trends in cable technology and cable accessories

WHO SHOULD ATTEND:

• Consulting Engineers
• Electrical Engineers
• Project Engineers
• Maintenance Engineers
• Power System Protection and Control Engineers
• Building Service Designers
• Data Systems Planners and Managers
• Electrical and Instrumentation Technicians
• Master Electricians
The range of voltage and capacity of power transmitted through cables is showing a steady increase over the years. Environmental concerns, aesthetic issues, lack of transmission corridors and difficulty in routing overhead lines in crowded human habitats are some of the reasons for the explosive growth of cable technology well into the extra high voltage range. Due to physical limits on cable lengths for manufacturing and packaging, joints in cable become inevitable, particularly in the context of the utility sector. The cables need to be also terminated at sending and receiving end equipment, a very wide variety of them, in utility as well as industry applications and this calls for appropriate cable termination accessories.

Cable terminations and joints form the weakest link in any distribution system. Also, a failed joint in an underground distribution system is much more difficult to locate and repair compared to any similar problem in overhead distribution systems. This means that we should do our utmost to achieve a good joint or termination, which can give years of trouble-free service. The quality of a joint or termination depends to a large extent on the skill of cable jointer. The aim of a cable jointer must therefore to be to obtain a joint whose electrical properties are as good as the original cable both in electrical and mechanical terms. The design of cable jointing and termination accessories is based on this perception. Dependence on operator-skill is sought to be reduced to the extent possible by good choice and quality of jointing materials, though such dependence cannot be totally eliminated.

We will discuss these issues in this course by looking at the fundamental aspects involved so that the importance of the correct execution of a termination or joint will be brought home to those who attend the workshop.

PRE-REQUISITES
Some working knowledge of basic electrical equipment is required, although this will be covered at the beginning of the course. Real-life experience with such equipment and hands-on testing will enable the workshop to be placed in context.

ON-SITE TRAINING
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