



Training Course Specification

Course title	Substation Design	
Version No	1	
Course duration	2 Days	
Maximum delegate Nos	10	
Who should attend	Trainee construction engineers	
Pre - requisites	none	
Outcomes	<p>Aim of the course: To provide delegates with a basic knowledge of Substation design Completion of this course is regarded as an essential element in the overall training of new entry Construction Engineers.</p>	
Course content	<p>Day 1 History What is a Substation? Power and Energy Busbars Circuit Breakers Isolators Earth Switches Earthing System Transformers Reactors and Capacitors Busbar Arrangements Types of Substation Nomenclature Visit to Training Substation</p>	<p>Day 2 Auxiliary Supplies Standby Supplies Diesel Generators Batteries Compressors Dryers and Receivers Current Transformers Voltage Transformers Power System Faults Protection Requirements Protection Schemes Transformer Protection Foundations Construction Clearances Control of the Grid Operation Diagrams</p>
Assessments	none	