

**COURSE TITLE: AUTHORISED INSULATOR WASHER & TESTER
FOR CLIENT STATIONS APPARATUS &
TRANSMISSION LINES UP TO 330KV - INITIAL**

Course Purpose: This course is designed to convey to the participants the necessary knowledge & skill to enable them to carry out the washing & testing of station apparatus & transmission line insulation at voltages up to 330KV.

Course Duration: 5 Days.

Pre-requisites: Authorisation to climb and work from Clients Transmission Towers.

No.	LEARNING OUTCOMES
1.	Demonstrate the ability to extract relevant information from the: <ul style="list-style-type: none">• Code of Practice on Electrical Safety for Work on or near High Voltage Electrical Apparatus (the Blue Book), and the;• Client Work Procedures Manual & Demonstrate an understanding of Safe Approach Distance, as relevant to insulator washing & testing.
2.	Demonstrate knowledge of the basic safety precautions relevant to the live- line washing & testing of station and transmission line insulators, as stated in Client Work Procedures.
3.	Demonstrate knowledge of Safe insulator washing and testing practices applicable to Clients stations and transmission lines.
4.	Demonstrate knowledge & skill required to safely carry out the washing & testing of station apparatus, working from ground or from a ladder.
5.	Demonstrate the knowledge & skill required to safely carry out the washing & testing of station apparatus, working from a structure.
6.	Demonstrate the knowledge & skill to safely carry out the washing & testing of Insulators on Client transmission structures at 220KV.
7.	Demonstrate the knowledge & skill to safely carry out the washing & testing of Insulators on Client transmission structures at 330KV.

Summary of Content:

1. Electrical terms in the Blue Book or equivalent and relevant to the course.
2. Relevant Clauses from the Blue Book or equivalent.
3. Relevant Clauses and procedures from the Clients Work Procedures.
4. Safe Approach Distances for the various station voltages.
5. Stations Apparatus which cannot be washed with a water jet, which can only be washed de-energised and which can only be washed while under access permit.
6. Restrictions on the washing of certain transmission circuits.
7. Notification of proposed work to Control Location / Point.
8. Insulators which must be tested before washing.
9. Testing requirements for live-line sticks.
10. Insulator testing techniques.
11. Water quality testing techniques
12. Insulator washing techniques.
13. Weather and operational restrictions on station washing.
14. Washing of insulators on poles, from the pole and from an EPV.
15. The correct protective clothing for insulator washing and testing.
16. On-Site instruction in station and on transmission lines.

Delivery: (Presentation Format)

Delivery will consist of:

- Training room presentations to deal with the acquisition of knowledge and thinking skills, and;
- Participants practical paper based exercises
- Instruction at work sites

Competency Assessment: Assessment for this module will consist of:

1. Written skills assessment to demonstrate:
 - Working knowledge of selected Clauses from the Blue Book, and Client Work Procedures.
 - Working knowledge of Safe Approach Distances.
 - Working knowledge of the basic safety precautions applying to the live-line washing of stations apparatus.
 - Working knowledge of safe working & testing practices applicable to stations apparatus.
2. On-Site demonstration of the necessary knowledge & skill to carry out washing & testing of station insulation and transmission line insulators.