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Corona Inspection Training Institute

Ultra Violet - UV - inspection training and applications



Day One - Theory

1. **Corona Phenomena – Introduction**
 - 1.1 Ionization processes – Basics
 - 1.2 Corona on AC and DC
2. **Technology**
 - 2.1 Light emission by corona
 - 2.2 Solar Blind concept
 - 2.3 Bi-spectral imaging concept
3. **Corona Phenomena**
 - 3.1 Corona concerns
 - 3.2 Corona Losses – physics, loss function, factors
4. **Outdoor high voltage Insulators - Preamble**
 - 4.1 Ceramic Insulators
 - 4.2 Glass Insulators
 - 4.3 NCI (Polymer)

Day 2 - Application

- 4.4 Application I – NCI (Polymer) Insulators
- 4.5 Application II - Porcelain Insulators
- 4.6 Application III – Conductors
- 4.7 Application IV – Hardware
- 4.8 Application V – Distribution & Pole Fire
- 4.9 Application VI – Substation
- 4.10 Inspection Modalities - Preamble

Day 3 - Implementation

- 4.11 Implementation
- 4.12 Inspection methodology
5. **Hands on a camera**
 - 5.1 Carrying the camera
 - 5.2 Functions and Commands



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- 5.3 Troubleshooting
 - 5.4 Recording
- 6. Inspection tips
 - 6.1 Using the various functions
 - 6.2 Diagnosis and Inspection of suspected corona points
- 7. Database and reporting software
 - 7.1 Video clips & Pictures – Recording, handling, Editing
 - 7.1 Criteria sorting and analysis.
 - 7.1 Report Generation.
- 8. Certificates