



# Power-Up your Knowledge

## Circuit Breaker Basics - Module 1, 2 & 3

**Attendance earns you 1 CPD point with CESA - Validation Number: CESA-1192-10/2020**

Power-up your knowledge with CBI-electric: low voltage and claim 1 CPD point from CESA at no cost. Circuit breaker technology and application is not taught to engineering students at university level, therefore CBI deems it necessary to further the knowledge of all consulting engineers through a detailed understanding of circuit breaker technologies, infield product application and safety. As a proudly South African manufacturer, we believe it our corporate responsibility to equip consulting engineers with value-added exposure free of charge.

### Course Outline and Program:

| Description                 | Time           |
|-----------------------------|----------------|
| Arrival                     | 7:30 to 8:00   |
| 1. Prelude / History        | 8:00 to 9:30   |
| 2. The Need for Protection  |                |
| 3. Operating Principles     |                |
| TEA BREAK                   | 9:30 to 9:45   |
| 4. Technology Comparison    | 9:45 to 12:00  |
| 5. Curves                   |                |
| 6. Cascading                |                |
| 7. Discrimination           |                |
| LUNCH                       | 12:00 to 12:30 |
| 8. Type 1 / 2 Co-ordination | 12:30 to 14:30 |
| 9. Type Tested Panels       |                |
| 10. Service & Maintenance   |                |
| TEA BREAK                   | 14:30 to 14:45 |
| 11. Energy Efficiency       | 14:45 to 16:00 |
| 12. Certification           |                |
| CONCLUSION                  |                |

### Learning Objectives:

- Detailed Circuit Breaker Understanding
- Technology Differentials
- Cascading / Co-ordination
- Type 1 / 2 Conditions
- Maintenance Requirements
- Special Use MCCBs
- CPD

### A must attend for:

- Consulting engineers
- Electrical engineers and technicians
- Engineering managers
- Project engineers
- Design engineers
- Maintenance engineers and managers

**FREE**  
CPD accredited  
training

1 CPD Point

**Duration:** 1 full day  
**Date:** 7 November 2018  
**Time:** 7:30 for 8:00 to 16:00  
**Venue:** Shukela Training Centre,  
 31 Sugar Mill Way, Mount Edgecombe, KwaZulu Natal

**Course materials, food, beverages and certificate included with training**

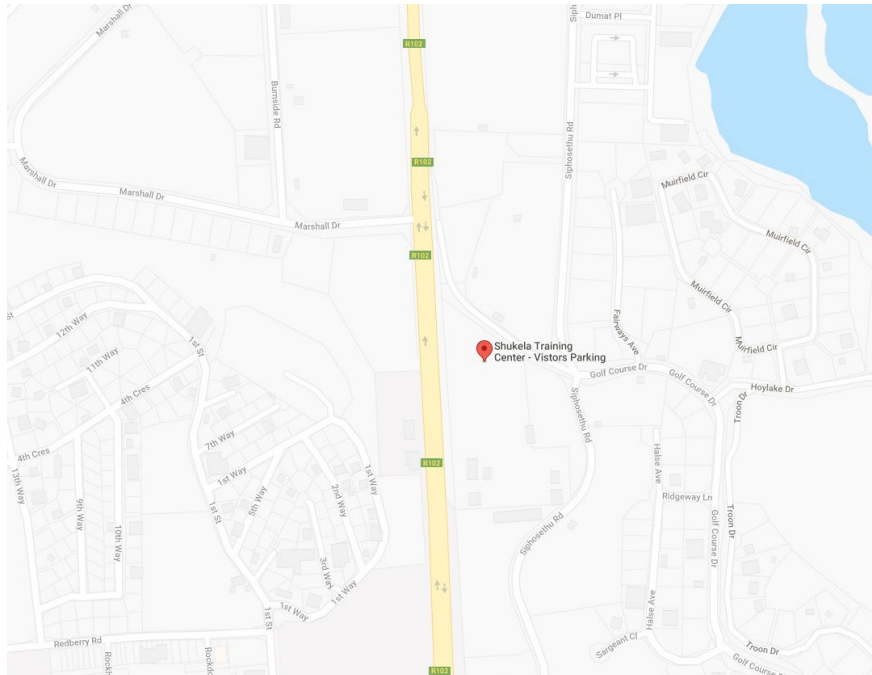
## About the Training Facilitator:



Michael Dunn is currently the technical sales representative for the South Coast at CBI-electric: low voltage and has been with the company since 1995. Michael has more than 34 years of experience in the electrical field and extensive circuit breaker knowledge.

Michael specialises in mining and engineering. He holds qualifications in electrical engineering and is a skilled presenter.

## Map to the venue:



## The following Terms and Conditions will apply:

- By making a booking, the terms and conditions herein contained are deemed to have been read and accepted:
  - This training is specifically aimed at professional engineers. Minimum requirement: 4 year degree or diploma in electrical engineering, or equivalent experiential training.
  - No seats will be reserved, unless CBI (Pty) Ltd receives a completed online registration form.
  - CBI (Pty) Ltd reserves the right, due to circumstances beyond our control, to change the speakers, program, date and venue.
  - **Cancellations:** All cancellations must be received in writing. Cancellations must be received in writing seven (7) working days or more before the training is to be held. Cancellations to be sent to [cpdtraining@cbi-electric.com](mailto:cpdtraining@cbi-electric.com).
  - **Substitutions:** Delegates must inform CBI (Pty) Ltd in writing of any substitutions three (3) working days or more before the training is to be held. The substitute must have the same or similar qualification as the delegate. CBI (Pty) Ltd will not be held liable for incorrect delegate details on certificates, etc. in the event of substitutions being made on the day of the training.
  - CBI (Pty) Ltd will not be liable for travel and accommodation costs. The training includes training material, certificate of completion, lunches and refreshments, but excludes travel and accommodation.
  - In the event of CBI (Pty) Ltd having to cancel or postpone an event due to circumstances beyond our control, delegates will get prior notice within seven (7) working days before the training is to be held. CBI (Pty) Ltd will not be responsible for expenses incurred by the client in case of changes to the event.

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