

Training Services

PowerLogic offer the following training services:

- Power quality – 3 day course;
- Electric shock investigations and rectify faults – 1 day course;
- Advanced electric shock investigations – 1 day course;
- Basic Power Systems – ½ day course;
- Basic Power Systems/Power Quality – 1½ day course;
- Electrical safety training for plumbers – 1 day course;
- Lightning awareness – 1.5 hrs;
- Fault loop impedance – 1.5 hrs.

Consulting Services

PowerLogic offer the following consulting services:

- Electric shock investigations (people and/or livestock);
- Power quality problems and solutions;
- Swimming pool electrical safety;
- Lightning risk evaluation & protection;
- Policy and procedural development;
- TV/Radio interference from powerlines;
- Electrical safety inspections;
- Instrumentation issues;
- Energy/demand management and cost reduction.

Please don't hesitate to contact us if you need help in any of these areas.

To arrange training or consulting services contact:

PowerLogic electrical consulting & training

1 Barnard St

Gladstone NSW 2440

Ph: 02 6567 5181

Fax: 02 6567 5182

Email: chris@powerlogic.com.au

www.powerlogic.com.au

PowerLogic electrical consulting & training

Is a trading name of:

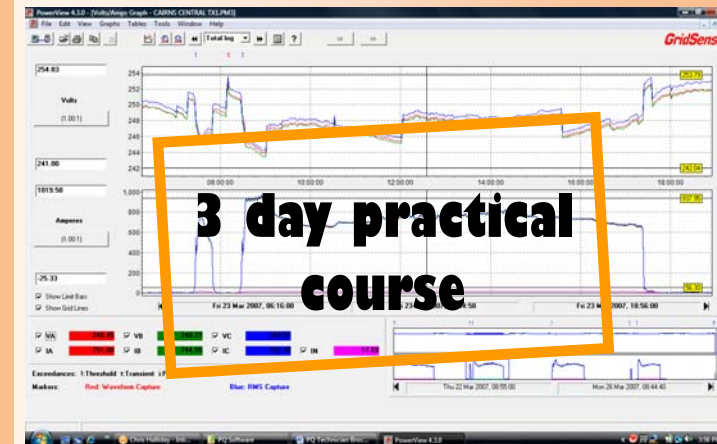
Electrical Consulting and Training Pty Ltd

ABN: 38 116 092 365

 **PowerLogic**

electrical consulting & training

Power Quality Training



Course Objective

Customer expectations for a quality electricity supply are ever increasing, coupled with this are aging networks and the increased sensitivity of customer appliances. The need for staff that understand and can manage power quality problems has never been greater.

This course aims to provide the essential knowledge to manage power quality problems for field based staff such as:

- Electricians;
- Relief Power Quality technicians;
- Existing Power Quality technicians;
- Apprentice Electrical Trades and Powerline Workers.

Participants will receive:

- A copy of the course slides;
- A comprehensive manual;
- A certificate of competence upon successful completion of the course and including a written assessment.

How Does the Training Occur?

We come to your location to save your staff's valuable time.

A class to a maximum of approximately 10 people is preferred.

A small training room is required with whiteboard, data projector (if available) and projector screen.

A Powermonic and laptop computer is required per person.

Morning tea, lunch and afternoon tea is to be provided to ensure the training schedule is met.

The Agenda

Day One

8.00am Introduction and welcome
8.15am Performing a Power Quality Survey
9.15am Voltage Quality
10.00am Morning tea
10.15am Voltage Quality continued
12.00pm Lunch
12.30pm Introduction to Excel - manipulate power quality data in spreadsheets and graphing
2.00pm Interruptions
2.45pm Motors
3.00pm *Afternoon tea*
3.15pm Motors continued
4.30pm *End*

Day 2

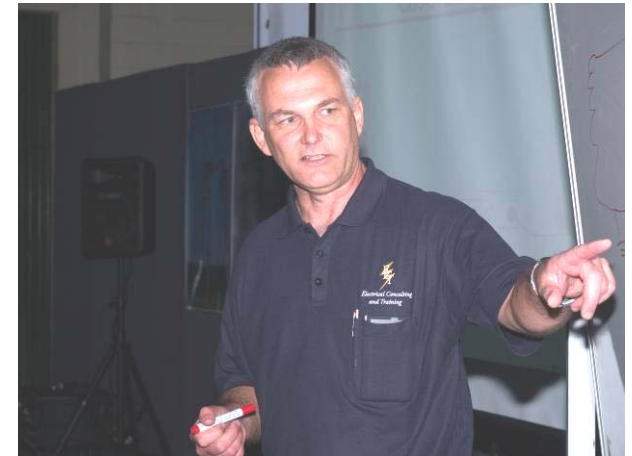
8.00am TV and Radio Interference
10.00am Morning tea
10.15am Waveform Distortion
12.00pm Lunch
12.30pm Transients
1.00pm Computer shimmer
1.30pm Equipment Protection
3.00pm *Afternoon tea*
3.15pm Equipment Protection continued
4.30pm *End*

DAY 3

8.00am Connecting/Disconnecting loggers
8.45am PowerMonics and PowerView
9.30am Policies
10.00am Morning tea
10.15am Analysing graphs
11.30am Fault finding PQ problems on customer premises
12.00pm Lunch
12.30pm Fault loop impedance
1.00pm Review, Questions and Answers
1.30pm Assessment
4.00pm *Afternoon tea*

Your Instructor – Chris Halliday

Chris Halliday had over thirty years in the electrical distribution industry before establishing his own consulting business in October 2005.



Chris has been working for various clients including network distribution companies, low and high voltage electricity users and shire councils. His consulting and training services are primarily focused on issues associated with power quality and shocks investigation, particularly for distribution companies.

He has spoken at numerous conferences on shock investigations, power quality, voltage management and network monitoring. These conferences have included the National and NSW chapter Electric Energy Society of Australia conferences, Energy 21C, the 13th IEEE International Conference on Harmonics and Quality of Power (ICHQP) and NSW Energy Industry Field Days.

Chris was previously the Power Quality Manager at Country Energy having established their power quality department from the ground up. He developed procedures and training for power quality and shocks investigations at Country Energy and is still their preferred trainer for these issues.