

**BISHTA Electrical Awareness Course**  
**Resources and guidance for basic understanding of electricity**  
**and hot tub installation:**

Please take some time before the course to ensure that you have looked at the web links below, including an article by Geoff Cronshaw from The IET on hot tubs.

<http://electrical.theiet.org/wiring-matters/63/hot-tubs/index.cfm>

Other web links will aid your understanding of electricity and terms such as Volts, Amps, Ohms and Watts and also overleaf for references to other documents:

<https://www.youtube.com/watch?v=9iKD7vuq-rY>

<https://www.youtube.com/watch?v=4Q7s7QANevA>

<http://science.howstuffworks.com/environmental/energy/question501.htm>

<http://electrician.everestcollege.edu/articles/amps-watts-volts-and-ohms-what-they-mean>

If you have time, the following documents will also be of use to you, either before the course, but certainly afterwards and please see overleaf for some web links which will aid your understanding of electricity and terms such as Volts, Amps, Ohms and Watts.

**Memorandum Guidance on Electricity at Work Regulations 1989 (HSR 25)**

<http://www.hse.gov.uk/pubns/books/hsr25.htm>

**Avoiding danger from underground services (HSG 47)**

<http://www.hse.gov.uk/pubns/books/hsg47.htm>

**Electrical test equipment for use on low voltage electrical systems (Guidance Note GS 38)**

<http://www.hse.gov.uk/pubns/books/gs38.htm>

**Electrical safety dwellings approved document Part P**

[http://webarchive.nationalarchives.gov.uk/20151113141044/http://www.planningportal.gov.uk/uploads/br/br\\_pdf\\_ad\\_p\\_2013.pdf](http://webarchive.nationalarchives.gov.uk/20151113141044/http://www.planningportal.gov.uk/uploads/br/br_pdf_ad_p_2013.pdf)

**Guidance for installers when making connections in consumer units**

<http://www.electricalsafetyfirst.org.uk/mediafile/100608814/Consumer-Unit-Connections.pdf>

**Guidance on the management of electrical safety and safe isolation procedures for low voltage installations best practice guide no. 2**

<http://www.electricalsafetyfirst.org.uk/mediafile/100117573/Best-Practice-Guide-2.pdf>

**Risk assessment**

<http://www.hse.gov.uk/risk/>

Materials for use with earth electrodes – bentonite and marconite

<https://en.wikipedia.org/wiki/Bentonite>

<http://www.marconite.co.uk/>