Network Mapping
Aerial Laser Survey

Increasing utilisation and improved reliability, through LiDAR and PLS-CADD™
By Network Mapping, A leading provider of Transmission and Distribution LiDAR Surveys.

To fulfil client requests, Network Mapping will be conducting a series of courses specifically focussed on increasing utilisation and ensuring reliability on existing assets. The design of a new build lines will also be considered, showing how PLS-CADD™ and LiDAR data can be used to minimise construction costs, and to ensure constructability issues are considered during design rather then during the build phase. This course will be suitable for users with any level of familiarity with LiDAR and PLS-CADD™

This will encompass training in the use of LiDAR data within PLS-CADD™ and will include case studies and hands on practical sessions regarding:

- Background of LiDAR
- Using LiDAR within PLS-CADD™ - the basics
- New build construction projects - routing, spotting and final design using LiDAR and PLS-CADD™
- Existing lines - increase reliability by identifying the precise location and nature of any constraint which affects the safe and reliable operation of the circuit and/or network
  - Thermal ratings confirmation
    To ENA 43-8
  - Vegetation inspection and reporting
    ESQC regulations 2002
  - Techniques to overcome clearance constraints
    Consider some real world examples and how, once identif ied, they were relieved
- Existing lines - increase utilisation by defining the required clearance envelope, and assessing the additional capacity on the circuit before the clearance, or electro-mechanical limits are reached
  - Enhance electrical load transfer capacity through thermal uprating
  - Techniques to enhance the available rating
    Consider some real world examples and how, once the capacity was identified, it was realised
  - Re-conductoring of existing lines
  - Structural check on poles / towers for Installation of larger conductors
  - Condition assessment tools and their Incorporation into the design workflow
- Managing information produced from aerial Inspections to enable widespread access across a utility

"Power Line Mapping by Power Line People"
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Contact Information for booking

Katie Bentley | Laura Morris
01423 206399
enquiries@network-mapping.com

Website:
http://www.network-mapping.com

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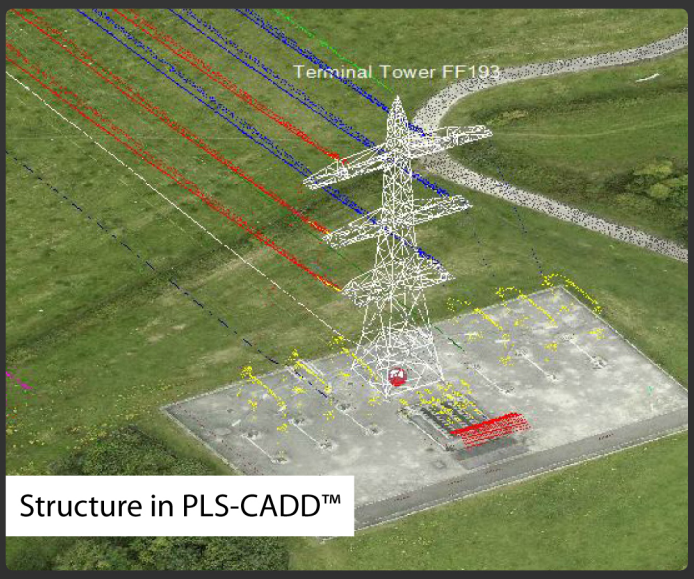
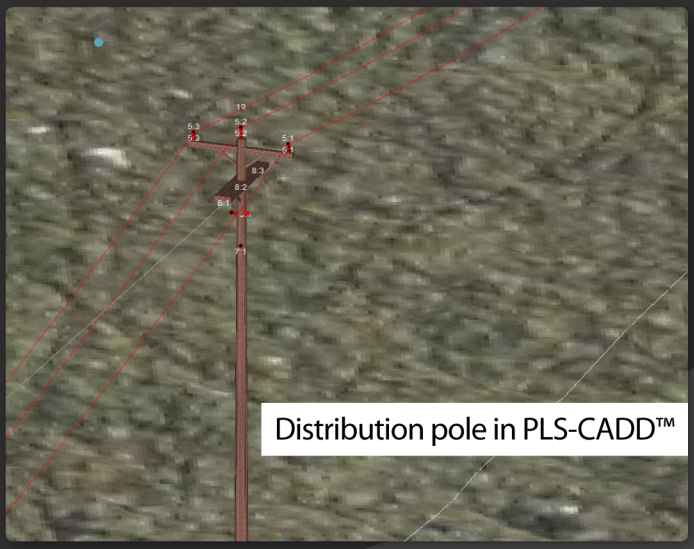


Structure in PLS-CADD™


LiDAR equipped helicopter


Distribution pole in PLS-CADD™

The course will be led by Paul Richardson, Network Mapping's Engineering Director with 30 years' experience of working for, and with, Power Utilities in Europe, the United States, Middle East, India and Australasia. Paul has worked extensively on new build and existing T&D assets and has spearheaded the use of LiDAR in reducing capital spend, improving reliability and increasing utilisation.

Course attendance can contribute to CPD with appropriate organisations, an attendance certificate will be provided on course completion.

This course will be provided on a BYOL (Bring Your Own Laptop) basis, PLS-CADD™ keys will be provided for the duration of the course.

The course fee is £1,500. This fee includes:

- Tuition fee (three days)
- PLS-CADD™ license provided for the duration of the course
- Exclusive sample datasets
- Accommodation
- Lunches

The course will be held at Network Mapping's Technology Centre, in the beautiful North Yorkshire Market Town of Knaresborough

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Use of LiDAR and PLS-CADD Training Course – Booking Form

Name	
Company	
Position	

1.0 Accommodation

Should you require accommodation during your course, hotel accommodation for 3 or 4 nights will be provided, inclusive within the price.

3 nights: Monday 17th – Wednesday 19th June
4 nights: Monday 17th – Thursday 20th June

Please indicate whether you require accommodation for 3 or 4 nights below by ticking the relevant box. If you do not require accommodation to be arranged, please tick the "Not Required" box:

□ 3 nights □ 4 nights □ Not Required

2.0 Dietary Requirements

Should you choose to take up the option of 3 or 4 nights' accommodation, an English breakfast will be provided at the hotel each morning. Lunch and refreshments will also be provided throughout the three course days.

Please indicate in the box below any dietary requirements you have:

3.0 Hardware

The course will be run on a BYOL ("Bring Your Own Laptop") basis. A PLS CADD licence will be provided to all participants for the course duration. Please tick the box below to confirm that you will be able to bring hardware of a suitable specification to run the PLS-CADD software along with you to the course venue.

□ I confirm that I will provide my own suitable hardware for the course duration.

4.0 Access Requirements

If you have any specific access requirements, please indicate them in the box below:

5.0 Contact Information

Details marked with a * are required. Your details will be kept by Network Mapping in the strictest confidence and not shared with any third party.

*Preferred contact telephone number

Mobile telephone number

Work telephone number

*Email address

Should any course details change, we will notify you by email or telephone at least 48 hours in advance.

6.0 Payment/invoicing details

We ask that we receive payment for the course in full a minimum of one week in advance of the course taking place.

Please indicate your preferred method of payment:

□ Invoice □ Cheque □ BACS Transfer

If your company wishes to pay the course fee by invoice, please provide the accounts payable address and contact point below:

Should you wish to pay by cheque or BACS transfer please enquire with the booking team by emailing enquiries@network-mapping.com