



Compass Rose Power Solutions Newsletter

2008 Winter Issue

YTD project activities.

- ATCO Electric Alberta—
 - New Recruit Assessments
 - LL manual development
- PowerStream Ontario—
 - Underground Switching
 - Work Practices manual development
 - Rigging/Conductor Wts and Tensions
- Regina, Saskatchewan
 - SaskPower sponsored Trainers Work Methods Conference
- Grand Bahamas
 - Electrical Testing
- BC Hydro Utility Survey activities
- Grenada
 - Rescue Training
- City of Lethbridge Alberta-
 - Electric Operations needs assessment
 - PS Work Protection Code
 - Rescue training

Trade Internet Sites

Listed below are internet sites which may be of interest .

- powerlineman.com
- line-man.com
- Lineman.edu
- elineman.com
- members.tripod.com
- 3Dinternet.com
- fwlsp.com
- powerlinemanmag.com
- electricityforum.com

For additional information on this article or any other previous articles please feel free to contact CRPS Ltd.

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Rigging / Conductor Weights and Tensions

It is a well known fact that any trades-related training, in order to be effective, needs to have a practical hands-on element. The more related the training is to typical daily job activities, the more involved the course participants become.

Such was the case with the recent Rigging / Conductor Weights and Tensions course at PowerStream Inc. in Ontario Canada.

Participants over a two day period had the opportunity to question long forgotten formulas used to calculate mechanical advantages, line tensions, guy tensions and bisect tensions.



In a structured training environment the class exercise was to prove that the actual mathematical calculations do in fact work.

Although apprenticeship training discusses these elements, rarely are the Powerlinemen given the opportunity to see for themselves the dramatic ef-



fects of what in fact takes place when loads and tensions are changed from both static and dynamic positions.

The objective of each exercise was to achieve a tolerance variance of no more than 5% from their calculations. In just about every exercise during the 10 sessions that were conducted, the calculations were well within those parameters.

It is amazing when a challenge is put forth in front of a Powerlinemen.....it can become a very rewarding experience when the results substantiate the

engineered formulas.



Dynamometers provided visual indicators in every exercise of the weights or forces that were



being imposed. One of the more dramatic indicators was on increases in guy tensions when line conditions change.

Understanding the implications helps the worker to adjust work methods to ensure that the work activity is not outside of the safe working limitation values of the tools or equipment.

Course Participation in Refresher Training

Refresher training may appear from the outside to be just that, but when analysing the outcomes, it takes on many forms of positive benefits.



Key is Management support as well as the input from course participants allowing time to discuss issues, review past practices, develop new work procedures collectively and put

them into effect. Such is the case with the City of Lethbridge Electric Operations Distribution Department staff in Alberta Canada.

From the project inception, genuine interest has taken on a meaningful approach. Along with some standard mandated training activities, a rubber



glove refresher course allowed the course participants to review their skills in a live line environment.



Hats off to the Distribution Department Electric Operations Manager, Stewart Purkis and his staff for taking some exciting initiatives in performance improvement strategies.