

**DISCOUNT
PROGRAM
PRICING**

Details Page 4

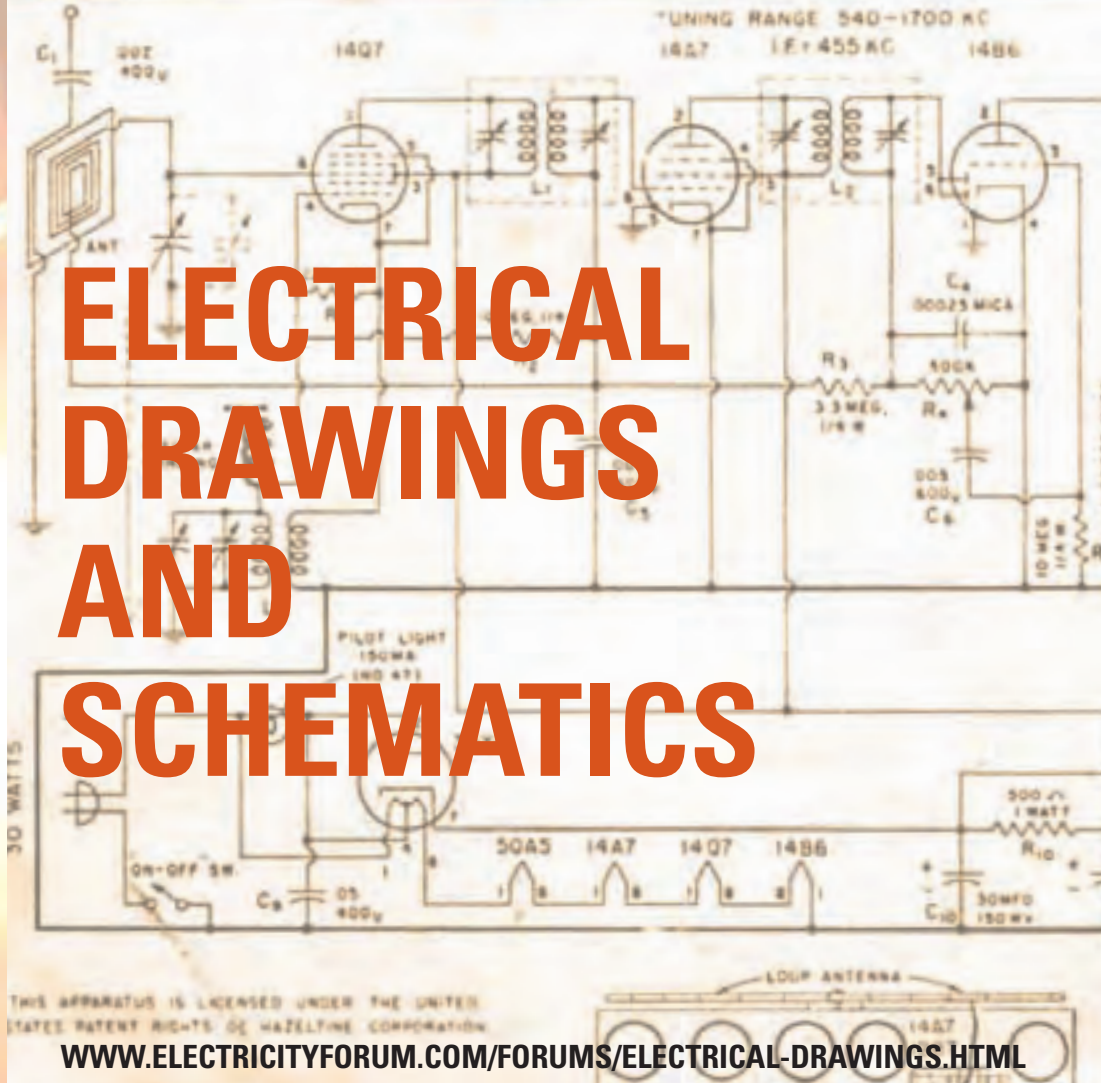
OTTAWA, ON
April 16-17, 2007

EDMONTON, AB
April 23-24, 2007

CALGARY, AB
May 28-29, 2007

SASKATOON, SK
May 30-31, 2007

ELECTRICAL DRAWINGS AND SCHEMATICS




YOU WILL LEARN HOW TO:

- create a block map of the installed equipment
- transfer the information to the one line diagram
- verify electrical prints and make changes to existing diagrams
- create and maintain regulatory compliant electrical diagrams

DELEGATES RECEIVE:

- FREE Electricity Forum 2007 Electrical Testing & Measurement Handbook Volume 7 (Value \$35.00)
- \$100 Coupon Toward any Future 2007 Electricity Forum Event (Restrictions Apply)
- 1.4 Continuing Education Unit (CEU) Credits
- FREE Magazine Subscription (Value \$45.00)
- Forum Presentations in Paper Format
- Register Three, Get One FREE (Details Page 4)

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available
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Details inside

 Earn Continuing Education Units (CEUs)

**THE
ELECTRICITY
FORUM**
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CANADA'S LEADER IN ELECTRICAL TRAINING

COURSE PROGRAM

Day 1

Jim Anderson, Regional Manager, Algonquin Power Systems
 8:00 a.m. - 10:00 a.m.

INTRODUCTION AND REVIEW OF THE REGULATIONS

How do the regulations apply and what do we need to know?

- Occupational Health and Safety Act and Regulations
- Provincial Regulations
- CSA Standard Z460 Control of Hazardous Energy
- CSA Standard Z432 Safeguarding of Machinery
- CSA Standard Z142 Code for Power Press Operations
- Canadian Electrical Code 2006 Changes
- NPFA 70E
- Manufacturers Standards
- Company Policy, Procedures and Practices

COFFEE BREAK 10:00 a.m. - 10:15 a.m.

..... 10:15 a.m. - 12:00 noon

PRINT READING BASICS

Legends

- What is the purpose of the legend, and
- What information can be found in the legend?

Electrical Symbols

- Review of standard symbols, and
- Symbol identification and meaning.

Basic layout

- Familiarization with the layout of different schematics and one line diagrams

Practical exercise using example prints

- Participants will participate in practical exercises and skills demonstrations of symbol identification and meaning, basic information location and schematic diagram layout.

LUNCH 12:00 noon - 1:00 p.m.

..... 1:00 p.m. - 2:30 p.m.

ELEMENTARY ELECTRICAL DIAGRAMS

Purpose

- What are schematics used for and why are they necessary

DC voltage schematic

- Introduction, familiarization and review of:
 - Series circuits,
 - Parallel circuits, and
 - Series/parallel circuits.

Single-Line Diagram

- Purpose of a single line,
- Equipment identification, and
- Hazardous energy control.

COFFEE BREAK 2:30 p.m. - 2:45 p.m.

..... 2:45 p.m. - 4:00 p.m. (approx.)

ELEMENTARY ELECTRICAL DIAGRAMS (CONTINUED)

AC voltage schematic

- Equipment identification, and
- Troubleshooting and fault finding.

Three Line Diagram, and

Practical exercise using elementary diagrams

- Participants will participate in practical exercises and skills demonstrations on the identification of circuits, and the uses of single line, AC schematic and three line diagrams.

Day 2

..... 8:00 a.m. - 12:00 noon

DEVELOPING AND MAINTAINING A SINGLE LINE DIAGRAM

- Regulation compliance,
- Site familiarization,
- Equipment identification and inventory,
- Nomenclature verification,
- Preparing a block diagram,
- Interconnecting the equipment,
- Verification of accuracy, and
- Practical exercise

- Participants will participate in the development of a single line diagram using narrative information.

COFFEE BREAK 10:30 a.m. - 10:45 a.m.

LUNCH 12:00 noon - 1:00 p.m.

..... 1:00 p.m. - 2:30 p.m.

TROUBLESHOOTING USING ELECTRICAL SCHEMATICS

Purpose

- Effective trouble shooting approach

Evaluating and assessing the fault

Mapping a solution

- Task identification

Identifying the hazards

- Introduction to Job Hazard Analysis

Practical exercise using schematics

- DC circuits
- AC single phase circuits
- AC three phase circuits

COFFEE BREAK 2:30 p.m. - 2:45 p.m.

..... 3:00 p.m. - 4:30 p.m.

CONCLUSION

- Review of course highlights
- Questions and Answers
- Closing Remarks.

ADJOURNING 4:30 p.m. (approx.)

COMPLIANCE REGULATIONS:

- Occupational Health and Safety Act and Regulations
- Provincial Regulations
- CSA Standard Z460 Control of Hazardous Energy
- CSA Standard Z432 Safeguarding of Machinery
- CSA Standard Z142 Code for Power Press Operations
- Canadian Electrical Code 2006
- NPFA 70E
- Manufacturers Standards
- Company Policy, Procedures and Practices

RELATED TRAINING:

- Arc Flash Electrical Safety
- Electrical Maintenance and Testing
- Job Hazard Analysis
- Hazardous Energy Control

WHO SHOULD ATTEND:

Electrical technicians, field engineers, project managers, inspectors, contractors, and journeyman electricians who depend on effective skills and knowledge required in this ever changing fast pace electrically driven environment.



INTRODUCTION

In order to comply with the above mentioned regulations, complete and up to date electrical single line diagrams and equipment operating and control schematics must be made available in the work place. These important documents are required to be updated as necessary or as equipment changes or is modified and sometimes verified on an annual basis. In addition, this two-day program is designed to provide knowledge of the various types of electrical diagrams used in the industry, and to develop the skills necessary to read, draw and interpret these diagrams.

COURSE DESCRIPTION:

This two-day seminar is designed to prepare electrical personnel with the ability to read and understand the electrical diagrams, recognize equipment and verify the integrity of the existing schematics. Participants will be introduced to electrical symbols, one-line and three-line electrical schematics and their content, including basic layout and legends. Participants will participate in practical exercises in schematic reading, diagram verification and the steps required for creating and maintaining accurate one-line diagrams. Participants are encouraged to bring examples of their own facility's prints to use during practical exercises. Low-, medium- and high-voltage installations can be reviewed as requested by participants.

SKILLS DEVELOPMENT

On completion of this training the participant will be able to create a block map of the installed equipment, transfer the information to the one-line diagram, verify electrical prints and make changes to existing diagrams. The participant will have a better understanding of electrical circuits and single-line diagrams. These skills will be of great value to technicians and the companies for which they work by ensuring their ability to create and maintain regulatory compliant electrical diagrams.

COURSE LEADER

Jim Anderson began work in the Electrical Power Production industry in 1976 with the Canadian Armed Forces. He studied under the direction of the Canadian Armed Forces School of Military Engineering in Chilliwack, British Columbia. He has installed and commissioned power generating and supply services across Canada including the High Arctic. In addition, Jim has provided electrical services for Tembec, Inco, Honeywell and Black and McDonald throughout his 30 years of service in the industry.

ON-SITE TRAINING AVAILABLE

We can produce this or any other electrical training program (see: www.electricityforum.com/forums/upcoming_courses.htm for a full list) directly for your company.

Our on-site training courses are tailored to meet your company's specific requirements and conducted on your own premises for your employees. Save the cost of travel and hotels and save on our regular public enrollment registration fees.

Plus, our instructors can work with you in advance to determine the level of electrical training and experience of your employees and the specific applications that you would like covered. Electrical on-site training courses are best because they are delivered using the equipment your electrical technicians use everyday. This maximizes the educational value your electrical training investment.

For more information, contact: Randy Hurst, President, The Electricity Forum randy@electricityforum.com

REGISTRATION

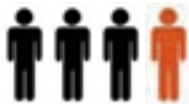
Act Now! Limited Seating! Register Today!

REGISTRATION FEES

The registration fee to attend the forum is \$699.00 + \$41.94 GST. The fee includes forum participation, a forum materials package, Electrical Testing & Measurement Handbook Vol. 7, Magazine subscription, Electricity Forum \$100 coupon, refreshments on both days. Lunch is not included with the course. (GST #R105219976).

Save \$50 By early bird registration!

Register and prepay 14 days before forum date and receive an early bird registration fee of \$649.00 + \$38.94 GST per delegate.



Register 3 Delegates At Full Price, THE 4TH REGISTRATION IS FREE



Ways to register:

PHONE
(905) 686-1040



FAX:
(905) 686-1078



MAIL:

The Canadian Electricity Forum
Unit 215,
1885 Clements Rd.
Pickering, ON
L1W 3V4

ON-LINE:

www.electricityforum.com/forums/electrical-drawings.html



WHEN AND WHERE (Please check the location where you want to attend the course)

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Ottawa, ON - April 16-17, 2007
Chimo Hotel, 1199 Joseph Cyr Street, Tel: 613-744-1060 <input type="checkbox"/> Toronto, ON - April 18-19, 2007
Park Plaza Airport Hotel, 25 Sheppard Court, Tel: 416-675-1234 <input type="checkbox"/> Edmonton, AB - April 23-24, 2007
Coast Terrace Inn, 4440 Gateway Blvd., Tel: 780-437-6010 <input type="checkbox"/> Vancouver, BC - April 25-26, 2007
Best Western Hotel Centre
7551 Westminster Highway, Richmond, BC, Tel: 604-273-7878 | <ul style="list-style-type: none"> <input type="checkbox"/> Calgary, AB - May 28-29, 2007
Radisson Hotel, 2120 - 16th Avenue N.E., Tel: (403) 291-4666 <input type="checkbox"/> Saskatoon, SK - May 30-31, 2007
Saskatoon Inn, 2002 Airport Drive, Tel: (306) 242-1440 <input type="checkbox"/> Saint John, NB - June 4-5, 2007
Hilton Saint John, 1000 Tupper Square, Tel: (506) 693-8484 <input type="checkbox"/> Halifax, NS - June 6-7, 2007
Citadel Halifax Hotel, 1500 Brunswick Street, Tel: (902) 422-1391 |
|---|--|

YES, Register me now for the Electrical Drawings and Schematics Training Forum. Registration Fee: \$699.00 + \$41.94 GST

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Name _____	<input type="checkbox"/> Cheque enclosed
Title _____	<input type="checkbox"/> Invoice me under PO#: _____
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	Card Holder name _____ (if not registrant)

CANCELLATION AND REFUND POLICY: Registration fees are refundable only upon receipt of written notification 10 days prior to the conference date, less a 10 per cent service charge. Substitution of participants is permissible up to and including the day of the forum. The Canadian Electricity Forum reserves the right to cancel any conference it deems necessary and will, in such event, make a full refund of the registration fees.