



## ETAP POWER SYSTEM ANALYSIS WORKSHOP REGISTRATION

Attention ETAP users and prospective users. Plan to attend an ETAP workshop event in your area. Get the most of this powerful software platform by increasing your knowledge of ETAP. Sessions are presented by certified ETAP instructors with extensive experience in ETAP and power systems. Past attendees have found excellent value in these workshops and have greatly improved their productivity.

Course #113 is for engineers that have an electrical background, but haven't taken formal ETAP training before. It begins with the basics of one-line diagram creation, data entry, and quickly expands the users' knowledge to include methods to automatically perform multiple 'what if' studies using multiple scenarios. The course includes Short-Circuit, Load Flow, Motor Starting review, Device Coordination, and Detailed Arc Flash Analysis, as well as review of Transformer Sizing and Ground Grid design.

Course #272 is an extension to Course #113. (Course #113 is required to take Course #272; no exceptions) It includes more advanced topics including Motor Acceleration, Harmonic Analysis, Reliability Assessment, Transient Stability, Generator Start-Up, as well as Optimal Power Flow and Optimal Capacitor Placement.

All courses are LIMITED to 20 participants, so please register early!

We are pleased to present a series of workshops and seminars for ETAP in locations across Canada.

Location	Dates and Duration	Training Courses	Cost per Attendee
Edmonton, AB	Aug 18-20, 2010 - 3 day	3-Day - ETAP Course #113	\$1,695
Toronto, ON	Sep 15-17, 2010 - 3 day	3-Day - ETAP Course #113	\$1,695
Calgary, AB	Oct 20-22, 2010 - 3 day	3-Day - ETAP Course #113	\$1,695
Edmonton, AB	Nov 4-5, 2010 - 2 day**	2-Day - ETAP Advanced Course #272	\$1,295
Vancouver, BC	Feb 2-4, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Edmonton, AB	Feb 23-25, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Montreal, QC	Apr 13-15, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Calgary, AB	May 11-13, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Toronto, ON	Jun 15-17, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Edmonton, AB	Aug (TBA), 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Toronto, ON	Sep 14-16, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Calgary, AB	Oct 12-14, 2011 - 3 day	3-Day - ETAP Course #113	\$1,695
Edmonton, AB	Nov (TBA), 2011 - 2 day**	2-Day - ETAP Advanced Course #272	\$1,295

**Discounts (#1 through #3 are cumulative)**

- 1) **Pre-registration and Payment** – If you register and pay 30 days prior to the selected course date, the attendee fee for each course selected is discounted \$100.
- 2) **Multiple Attendees** – Three or more attendees participate in a single event from the same company, each attendee fee is discounted \$100.
- 3) **5-Day Discount** – If you book a 3-Day and 2-Day course for the same person simultaneously, there is an additional discount of \$200.
- 4) **Educational** – Full-time registered professors or lecturers for post-secondary educational facilities in Canada, receive a 50% discount. (Educational discount is not cumulative.)

- Price is Canadian Funds, GST/HST extra (GST# 832974679)
- Payment in full must be received two weeks prior to start date of course.
- Cancellations will be fully refunded if received 30 days prior to commencement of course. Cancellations received after the 30 day period and up to and including 15 days prior to course will be credited for a future ETAP Workshop of similar value.
- Course Registration includes refreshments and lunch.
- Each participant is provided a computer with ETAP software loaded for use during class time for the 2-Day and 3-Day courses.



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				<b>Discount</b>	
				<b>GST / HST</b>	
				<b>Total</b>	

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**Send form to 866-821-3732 or PDF to [training@etap.ca](mailto:training@etap.ca)**

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## ETAP 3-DAY WORKSHOP AGENDA

*(Montreal Course is taught in English)*

<b>Workshop Day</b>	<b>Morning Session</b> 8:30 A.M. - Noon	<b>Afternoon Session</b> 1:00 P.M. – 4:30 P.M.
<b>Day 1</b>	<ul style="list-style-type: none"> <li>➤ General Overview</li> <li>➤ One-Line Diagram</li> </ul>	<ul style="list-style-type: none"> <li>➤ Library Systems</li> <li>➤ Load Flow</li> </ul>
<b>Day 2</b>	<ul style="list-style-type: none"> <li>➤ Load Flow</li> <li>➤ Cable Systems Review</li> <li>➤ Motor Acceleration Review</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short-Circuit</li> <li>➤ Device Coordination</li> </ul>
<b>Day 3</b>	<ul style="list-style-type: none"> <li>➤ Device Coordination</li> <li>➤ Sequence of Operation</li> <li>➤ Arc Flash</li> </ul>	<ul style="list-style-type: none"> <li>➤ Transformer Sizing</li> <li>➤ Ground Grid Systems</li> </ul>

Other topics such as Cable Pulling, Harmonic Analysis, Parameter Estimation, Cable Pulling, Transient Stability, Generator Start-Up, Optimal Power Flow, Reliability Assessment, Unbalanced Power Flow, DC Load Flow, DC Short Circuit, Battery Sizing & Discharge, Control System Diagrams, Wind Turbine Analysis, etc. are available via onsite training courses or attendance to advanced sessions.

## ETAP 2-DAY WORKSHOP AGENDA

<b>Workshop Day</b>	<b>Morning Session</b> 8:30 A.M. - Noon	<b>Afternoon Session</b> 1:00 P.M. – 4:30 P.M.
<b>Day 1</b>	<ul style="list-style-type: none"> <li>➤ General Overview</li> <li>➤ Motor Acceleration</li> <li>➤ Parameter Estimation</li> </ul>	<ul style="list-style-type: none"> <li>➤ Harmonic Analysis</li> <li>➤ Reliability Assessment</li> </ul>
<b>Day 2</b>	<ul style="list-style-type: none"> <li>➤ Transient Stability</li> <li>➤ Dynamic Model Review</li> <li>➤ Generator Startup Review</li> </ul>	<ul style="list-style-type: none"> <li>➤ Optimal Power Flow</li> <li>➤ Optimal Capacitor Placement Review</li> </ul>

Other topics not covered in Intermediate courses such as Cable Pulling, DC Load Flow, DC Short Circuit, Battery Sizing & Discharge, Control System Diagrams, High Voltage DC Systems, Unbalanced Load Flow, Transmission Line Sag, Tension & Ampacity, etc. are available via onsite training courses or attendance to other advanced sessions.