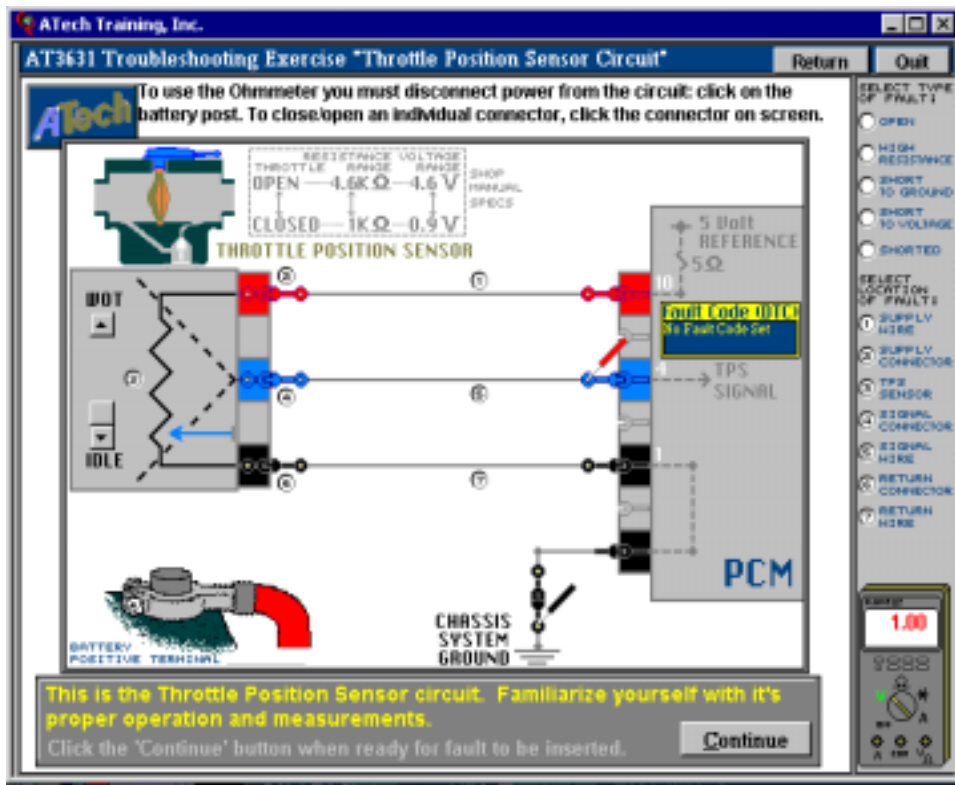


AutoTeacher News & AIPC News

September - October 2004 Copyright ATech Training Inc.

Computer Based Troubleshooting Skill Development



Schematic Based Troubleshooting - Fig. 1

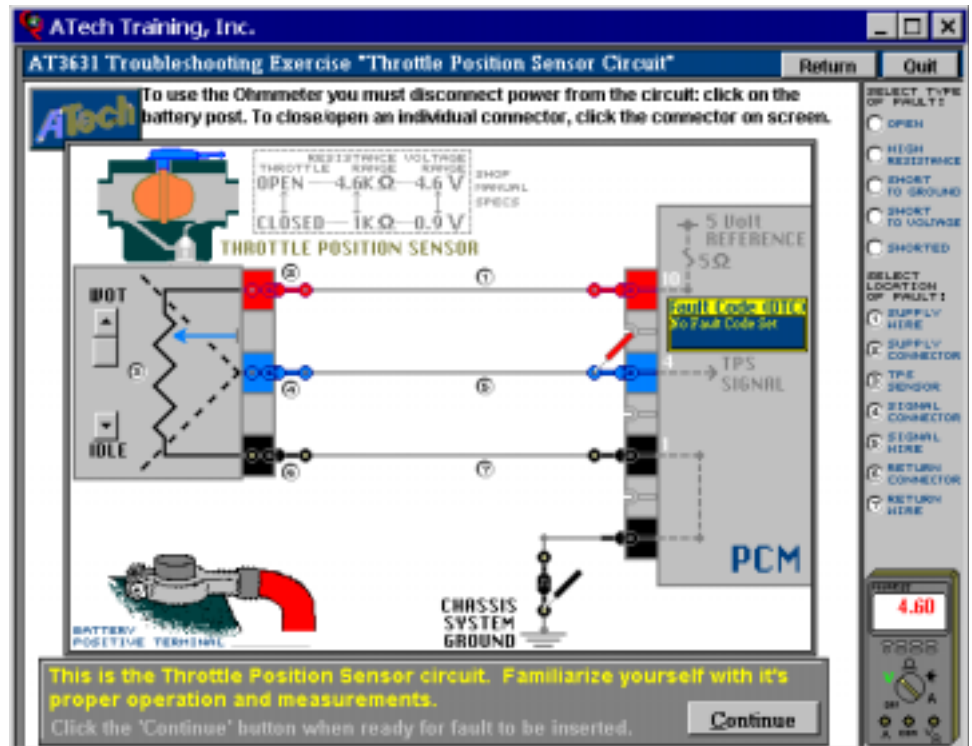
ATech Training Inc. introduces the new ATech 3631 software. Industrial and Public School Instructors can now give their students the opportunity to practice troubleshooting in a comprehensive and systematic manner.

This is the first training system of its kind. You can learn how to do "Sensor End Diagnostics" and practice those hard to find engine control system problems. The ATech 3631 Engine Control System Troubleshooting program will allow you to insert electrical faults of all types in either a random mode or in a controlled mode.

The ATech 3631 trainer has a built in Digital Multimeter (DMM). There are 5 circuits to troubleshoot: the Fuel Pump Relay, Fuel Injector, Inlet Air Temperature Sensor, Coolant Temperature Sensor, and the Throttle Position Sensor. The ATech 3631 can insert more than 60 different faults across the 5 circuits. The faults cover the entire range of open circuits, shorts to power, shorts to ground, shorted components, and high resistance. There is almost no way to

"bug" components, or vehicles to achieve this level of troubleshooting practice. But with the ATech 3631 you can put in all the "bugs" with just a click of the mouse. Figures 1 and 2 illustrate the level of interactivity incorporated into the program. As the Throttle Position Sensor slider is adjusted with the mouse, voltage (measured on the voltmeter) varies and the valve in the illustration of the mechanical throttle changes to indicate throttle position. Shop Manual specifications are given for each circuit in a portion of the schematic. These specifications typically give a normal range for voltages and resistances. In circuits that are temperature sensitive, a chart is given showing the temperature-resistance relationship along with the ambient temperature.

The ATech 3631 has two modes of operation - Training and Advanced. The Training mode allows measurements across component connector pins. The Advanced mode only allows back probing of connector pins which creates the same conditions as the real vehicle. The two modes allow easy transition of theoretical concepts to actual troubleshooting skill.



Interactive Features - Fig. 2

“Invitational” Instructor Workshops

The ATech - AIPC “Invitational” Workshops are conducted three times each year; April, June, and October. All expenses are paid for each attendee including air transportation, airport pickup, hotel, and meals. The location is the Belterra Riverboat Resort. Each group is selected to provide a mix of Secondary, Post-Secondary, and Industrial Instructors. Technical topics and teaching techniques emphasizing “hands on” instruction are presented and discussed. Over \$1000.00 of books and teaching materials are given to each participant. **In addition, each workshop satisfies the 20 hour annual training requirement of NATEF.**

April 2004 Workshop



Left to Right: Todd Dawn, Jessica Levy, Jeff Curtis, Charles Campbell, Carson Conner, Frank Manley, Mike Moore, Ron Kennedy, Meredith Yoe, Jerry DiLossi, Gene Brown, Darrin Brewer

Meredith Yoe and Todd Dawn Win Troubleshooting Contest



Meredith Yoe and Gene Brown - ATech VP

Comments from Participants

“First seminar that I have ever attended that kept me engaged for all class periods”

“I can use this material with my students next Monday morning”

“Thank you so much for the great experience. This was the best electrical/electronic information I have ever received!”

“I learned more in these three days that in all of the other OEM and Aftermarket training programs I have attended combined”

“Can not say enough about how great this whole workshop was”

ATech Training Inc.
A Veteran Owned and Operated American Company

“Invitational” Instructor Workshops

July 2004 Workshop



Left to Right: Gene Brown, Peter Kaufman, Henry Wyckoff, Anthony Clark, Charles Watt, Luis Arboleda, Gary Denton, Mark Dawson, Robert Booth, Howie Hipwell, Enrique Flores, Thomas Gajewsky, Mario Gionet, Rob LaFosa, Steve Tomory

This was our first “International” Workshop. The two gentlemen from the Canadian military, Howie Hipwell and Mario Gionet, added some unique experiences for everyone to enjoy. This group also included a high school teacher, Anthony Clark, who has been teaching 3 classes of 25 students per day for 18 years. He had some great insight into student motivation.

Howie Hipwell and Mario Gionet from Canada Win Troubleshooting Contest



Howie Hipwell, Laura Lyons - A Tech CEO, & Mario Gionet

Comments from Participants

“GM OBD II section - Can’t wait to begin using this information at my school”

“GM OBD II section - Great information, this up to date information is needed for technicians and instructors”

“All Programs were great but I would like to have had more time in all areas”

“Electrical/Electronic Troubleshooting Program - Excellent skill development, I have never seen anything as challenging”

“I can not believe that I received this entire training program for free. It should have cost thousands of dollars”

“The automotive teachers at my local school were running a hobby shop. I became a teacher at the school because I needed good technicians. I never called myself an automotive teacher because I did not want to associate myself with the hobby shop teachers. I always said I was a mechanic who was teaching automotive. But after having spent 3 days with these people, I would be proud to call myself an automotive teacher with them.”

SEMA Scholarships Available



Interested In A Career In The Specialty Automotive Industry?

If you have a passion for cars and trucks, the Specialty Automotive Market is looking for you!

Scholarship assistance is available to those pursuing careers in the \$29 billion dollar specialty equipment industry. Career path opportunities include:

- Accounting
- Administration
- Advertising/PR
- Design/Graphics
- Engineering
- Information Technology
- Manufacturing
- Photo/Journalism
- Race Car Driver/Crew
- Sales/Marketing
- Technicians
- Transportation

The 5,200 SEMA-member firms range from large Fortune 500 manufacturers to small local retailers. It is a vibrant, exciting industry that is on a solid growth curve.

Scholarships are available for graduate studies, 4- and 2-year degrees and vocational/technical certificates.

To find out more about SEMA Scholarships, and to download an application, visit us at www.sema.org/scholarships or call 909/396-0289.



Show Me The Money

The SEMA Memorial Scholarship Fund was founded in 1984 to foster leadership opportunities in the specialty equipment marketplace and offer financial support to students pursuing careers in the automotive aftermarket. Over the past two decades, SEMA Scholarships have supported over 400 students with more than \$500,000 in scholarship awards for tuition and book expenses.

The economic landscape for college tuition has increased exponentially since 1984. The long-term college inflationary rates have been twice the general economic inflation rates since the late 1950s. According to a November 2001 survey conducted by the U.S. Department of Education, the average tuition costs have more than doubled the past 16 years, as evidenced below.

Annual Tuition	Average All Universities	4-yr Colleges	2-yr Colleges
All Institutions			
1984 Annual Tuition	\$5,206	\$6,124	\$5,964
2002 Annual Tuition	\$11,454	\$13,979	\$13,677
Tuition Increase	220%	228%	229%
Public Schools			
1984 Annual Tuition	\$3,805	\$4,469	\$4,138
2002 Annual Tuition	\$8,046	\$9,953	\$9,199
Tuition Increase	211%	223%	222%
Private Schools			
1984 Annual Tuition	\$9,676	\$12,278	\$10,039
2002 Annual Tuition	\$22,520	\$29,120	\$22,968
Tuition Increase	233%	237%	229%

In response to the high costs of education, the SEMA Scholarship program was restructured in 2004 to cover a broader base of students attending various universities, colleges, and/or vocational schools in both the United States and Canada. To further attract students to apply for SEMA scholarships, the award categories were increased with financial incentives positioned for the top scoring applicant in the upper-division and graduate categories.

Academic Level	Educational Institution	2005 Scholarship Awards Available
Graduate Studies	4-year accredited University or College	\$4,000 ** \$2,000
Undergraduate Studies – Senior or Junior Class	4-year accredited University or College	\$4,000 ** \$2,000
Undergraduate Studies – Sophomore Class	2-year University or College	\$1,000
Vocational or Technical School	2-year Program	\$1,000

**** Top scoring applicant to receive higher scholarship award based on established evaluation criteria.**

Student Qualification Requirements

- Minimum 2.5 grade point average
- Applicant must be enrolled in a full-time program with an accredited university, college, or proprietary program in the United States or Canada.
- Pursuing studies leading to a career in the automotive aftermarket or related field

“We are very proud of our scholarship awards,” said Mike Pagnola, SEMA Scholarship Committee chairman and president of Street Scene Equipment, Costa Mesa, Calif. “We

have been fueling the future of the specialty equipment aftermarket for 20 years. The SEMA memorial scholarships help motivate the next generation of industry leaders to complete their educations and pursue career opportunities available in the automotive aftermarket.”

The SEMA Scholarship program rewards the best and brightest students engaged in studies leading to a career in the automotive aftermarket or a related field. For a complete list of the past scholarship winners or to access a SEMA scholarship application, log onto www.sema.org/scholarships or contact SEMA’s Education Department at education@sema.org.

More About SEMA:

SEMA represents the \$29 billion specialty automotive industry. Founded in 1963, the trade association has 5,727 member companies. It is the authoritative source of research data, trends and market growth information for automakers and the specialty auto products industry. The industry provides appearance, performance, comfort, convenience and technology products for passenger cars, minivans, trucks, SUVs and recreational vehicles. For more information, contact SEMA at 1575 S. Valley Vista Dr., Diamond Bar, CA 91765-3914; call 909/396-0289; or visit www.sema.org or www.enjoythedrive.com.

Faith Barnese

**Vice - President - Membership & Councils
Specility Equipment Market Association (SEMA)**

ATech Supplies General Motors S.E.T. Manuals

In the spring of 2004, General Motors stopped publishing the original manuals for the General Motors Special Electronics Training Program (S.E.T.). The hardware for this training system was originally designed by ATech. Due to the large number of ATech customers who have purchased the training system over the last 12 years, ATech licensed the printing of the manuals from GM. If you need student manuals, instructor guides, or any of the training system hardware, contact ATech.



Stages 1, 2, and 3 Manuals

NACAT 2004 Conference

If you missed the 2004 NACAT Conference at McHenry County College in Crystal Lake this summer, you missed a great one. The seminars were great and the food was fantastic. The boat ride on Lake Geneva was worth the trip by itself. I will continue with pictures and articles throughout this year's newsletters.

Some people deserve special recognition; Kim Kill - handled payments, registration forms, and phone communications, not to mention bus duty, Cathy Maxwell - Interim Executive Dean-Business, Training and Technology, Michael Albamonte - Automotive Department. These three people did an outstanding job of organization.



**Fritz Peacock, Dennis Grace, and Pete Hamlin
30 Year Charter Members**



Cathy, Kim, and Mike



Al Goodyear, Jeff Hunt, and Dan Perrin



Ron Weiner of ASE Addressing a Breakfast Meeting



The Valvecover Races - a huge turnout

Dan Perrin - New Executive Manager of NACAT

AI Goodyear has been the Executive Manager of NACAT for a number of years. His service has been outstanding. For personal reasons he has requested that a new Executive Manager be selected. Dan Perrin of Trident Technical College, South Carolina was selected to take over the position. AI has agreed to continue assisting with the NACAT Foundation.



It is difficult to express the importance of Mr. Goodyear's help in getting NACAT to its present size. He has worked many long hours and fought many battles for the benefit of NACAT. Now, with Dan as Executive Manager and AI helping with the Foundation, it can only get better - summary of President Jeff Hunt's presentation.

Visit "AIPC Row" at ACTE!

547	I-Car 646	A Tech Training 40'	Greystone Technology 20'
545	ACDelco 644		744
543	American Honda 642		VRI 20'
Center on Edu & Work 541	NATEF 640		641

Some members of the Automotive Industry Planning Council (AIPC) have set up a special section of the ACTE Tradeshow designated AIPC Row. Winners of the Awards Program along with their winning applications will be there to discuss the application process and give tips as to achieving a high score.

AIPC 2004 Awards Program Winners

The 2004 AIPC Awards for Excellence in Automotive Training National Winners have been announced. They are:

Post Secondary - Generic Category

North Iowa Area Community College

Post Secondary Generic Runners Up

Delaware Technical and Community College

Riverland Community College

Post Secondary - Manufacturer Affiliated Category

Sinclair Community College

Post Secondary - Manf. Aff. Runners Up

Atlantic Technical Center

KirkWood Community College

Secondary Category

Warwick Area Career and Technical Center

Secondary Category Runners Up

Miami Valley Career Technology Center

St. Croix Vocational School

Congratulations to all of these great programs. This year the Awards Dinner will include National Winners, National Runners Up, and all State Winners. See you in Las Vegas in December!

AIPC Information Session at ACTE

Professor Mike Godson from Clark College in Vancouver, Washington and other members of the AIPC will be presenting an information session at the ACTE conference in Las Vegas in December 2004.

"Tips On Applying For The AIPC Award"

DATE: 12/11/2004

TIME: 3:15 PM - 4:00 PM

LOCATION: N254, Convention Center





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Automotive Industry Planning Council



And actively supports:



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- **General Motors S.E.T. Program** page 5
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 This was a great conference, conducted by super people. More in future issues.
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