



California Automotive Teachers

Spring 2015

Issue #44

CAT NEWS

www.calautoteachers.com

Newsletter Highlights

- "New" Smog Check Program
- Officer Reports
- Elusive Current Draws
- Variety of Advertisements!

What's in this issue?

Repeatability Regulations	1
President's Letter	3
Executive Director's Report	4
HS/ROP Officer's Report	5
Conference Highlights - Fall 2014	6
WEBMASTER Report	9
Become a BAR Instructor	9
Conference Highlights - Spring 2014	10
Excellence in Education	17
Permanent DTCs	20
Farewell to Teaching	24
Editor's Apology	25
Repeatability Letter	26

How Repeatability Regulations Are Devastating the Arts, CTE, and Taking the Community out of our Colleges!

*Maya Bendotoff, Executive Director,
Cabrillo College Federation of Teachers AFT 4400*

In the summer of 2012, prior to the passage of Prop 30, when there were hundreds of thousands of students that the California Community College system was unable to serve, the Community College Board of Governors passed regulations that prohibit a student who successfully completes a class from repeating it, except under certain circumstances. (Students can repeat courses required for transfer to the University of California or California State University, related to participation in intercollegiate athletics, or required for vocational or licensure reasons.) The regulations became effective in the fall of 2013.

In the context of five years of some of the worst budget cuts colleges had ever seen—the Chancellor's office reported that some 20% of classes had been cut system-wide—these measures made sense to some.

Then, in November of 2012, voters passed Prop 30 (primarily a tax on the wealthy to fund education). Prop 30 helped resuscitate public education in our

(Continued on page 11)

**The California Automotive Teachers will meet at Mira Costa College
for the Fall 2015 Conference on October 16 & 17**



Home



Jim's Books



ASE Content



Classroom Content



Jim's Stuff



Pearson



If you've never visited my website you're missing out. It's packed with thousands of resources to assist you in the classroom. You'll find these features plus much more.

- ★ Lesson Plans
- ★ Crossword and Word Search Puzzles
- ★ Over 450 Custom Animations
- ★ Over 3,300 Photo Resources
- ★ Over 2,000 Videos
- ★ Chapter Images
- ★ Sample ASE Tests
- ★ Monthly Informative Newsletters

Busy automotive instructors can always use a little help. I've been in your shoes and wish I had amazing resources like these for my daily classroom lessons.

To request an exam copy, and for additional instructor resources, follow the links from the Pearson pull-down menu on my website.

www.jameshalderman.com



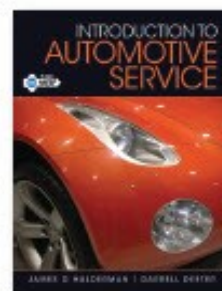
Featuring these titles plus many more!



Automotive Maintenance And Light Repair

© 2014

ISBN 10: 0-13-340518-4



Introduction to Automotive Service

© 2013

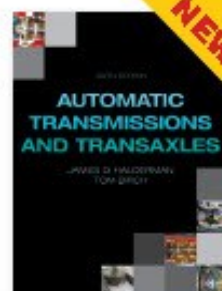
ISBN 10: 0-13-300533-X



Automotive Technology Principles, Diagnosis, and Service - 4th

© 2012

ISBN 10: 0-13-265395-8



Automatic Transmissions And Transaxles - 6th

© 2015

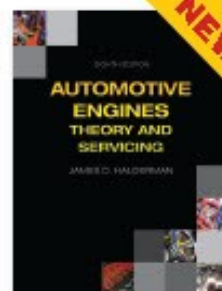
ISBN 10: 0-13-351656-3



Manual Drivetrains And Axles - 7th

© 2015

ISBN 10: 0-13-351504-4



Automotive Engines Theory And Servicing - 8th

© 2015

ISBN 10: 0-13-351500-1

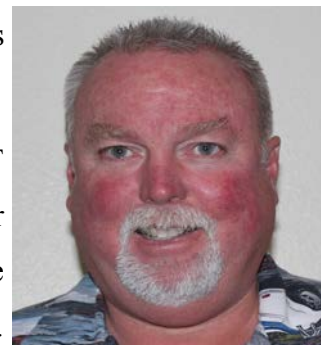


145 Golfwood Dr. • Dayton, OH 45449-1523
Office: (937) 859-4107 • Fax: (937) 859-1022 • jim@jameshalderman.com

President's Letter by Don Schumacher

I know it's been awhile since our last newsletter but like you, your CAT Board has been very busy of late. So let's get started!

Many thanks go out to Steve Small and his staff for hosting the 2014 Spring CAT Conference at Chabot College. Steve and his staff did a great job with the tours, their facility was spotless, the breakout sessions excellent (thank you instructors) and the food was terrific. As always, a great big "THANK YOU" goes out to the vendors. Most of you don't get to see what they do to prepare for our conferences. Boxes that were shipped in have to be unpacked and their booths set up after they have traveled from as far away as Canada. Not to mention what they give away at the conference, their time with you! Also behind the scenes are a few guys that help coordinate every great CAT conference. Thanks Phil, Tom, Steve and the rest of the CAT Board.



As you know at the Spring Conference CAT gives special recognition to members who have made a difference in their particular area. Below is the list of the 2014 recipients. Congratulations!

Marcus Evans, Monterey High School- Secondary/ROP Teacher of the Year

Jack Rosebro, Perfect Sky-Industry Award

Rick Escalambre, Skyline College- Post Secondary Teacher of the Year

Julia Johnson, Skyline College- Presidents Award

Glenn Troub, Steve Small- Host College Awards Santa Barbara City College and Chabot College respectively.

Our fall conference was held at LA Trade Tech in October. There are two people who need some special recognition, Dan Encinas (LATT) and Phil Jelineck (CAT). These two guys pulled off the impossible. With very short notice Dan agreed to hold the conference and from all the reports I have heard, it was very successful. I also want to take this opportunity to thank the CAT Board members John, Phil, Steve and Tom. Circumstances and time conflicts left us a little short handed at the conference but they really stepped up. For those of you that did not attend LATT, the CAT board held a special election for V.P. Your new Vice President is Rich Williams from Oxnard College. Glenn Troub your past V.P. had informed the board that he would be unable to fulfill his commitment to CAT. Many thanks to Glenn for his time that he devoted to CAT.

(Continued on page 8)

Executive Director's Report by Bob Barkhouse



It has been a long time since I have had to write an Executive Director's report. I hope that I can remember everything that has occurred since then. I am very pleased that we are again going to receive our great newsletter. I, and many others, really missed not receiving it. I have had a chance to see some other associations newsletters and none compare to the GREAT work that Rick has done on OURS. I want to take this opportunity to thank Rick for all of his hard work and hope you will thank him when you see him. This is one h--- of a job for one individual! He has to sell adds, compose them, collect for the adds, hunt for material put the newsletter together, get it printed and get it sent to you, on top of teaching. I have written several association newsletters and the biggest problem any newsletter author has is getting the members to help by finding or contributing articles that Rick can use. I know that there are a lot of you out there that have discovered a new method, tricks, or seen an article in a magazine or paper that would be of interest to our readers. Let's get behind Rick and send some material to him. It does not have to be at a deadline, Rick will receive material any time, he has a file at home that he stores material in and retrieve as needed.

In 2013, our Fall semi-annual conference was at Santa Barbara. What a treat to be in Santa Barbara and on their college campus. I understand that all of the teachers have to pay to work there! All kidding aside, they have a great automotive facility and it is obvious that they have a successful program. The conference was great and the seminars were outstanding. To top all of this off, CAT was there in force, even though everyone had to drive or attempt to fly in. Since Santa Barbara, we have had two other great Conferences. One at Chabot College and the other at Los Angeles Trade & Tech. Again, the seminars were great and everyone that I talked to was pleased with both conferences. As usual, the CAT attendance was on a level with past conferences. As I have said before, I am proud of all of you for the effort you put forth to attend. I know it is hard in these tough economic times but I hope we can continue to put on conferences that meet your needs.

I continue to attend ASCCA (Automotive Service Council) Team Weekends and was able to attend their summer conference and their Joint Summit meeting with CAWA (California Automotive Wholesalers Association (automotive parts). All of them were great meetings. The ASCCA/ CAWA Summit Meeting dealt with industry problems and new technology. This is where I was introduced to the nuances of Telematics. I am here to tell you that Telematics is still a hot topic for discussion and I don't think it is going away. CAWA is another organization that I am working to stay in good with.

(Continued on page 6)

High School/ROP News—Armando Hernandez

Immediately after accepting the position of High school and ROP representative at the 2013 CAT conference I was handed my first mission by my predecessor John Chocholak, to address the motion items approved at the 2011 board meeting, I made them my first priority. Since then I have worked with Dara Dubois, Steve Tomory and Janet Malig the DSN for Los Angeles and Orange County to address these CAT requests and we have made some very positive progress.



These items are in direct response to SB611 and SB 612. These two bills gave great power to the UC system over secondary education. Once these bills were signed there was very little high schools could do to fight them, the only option is still only to comply or be shut down due to lack of student enrollment. As an ASE certified technician and trainer I know very well the value of a certified training program, however once the UC system was given the reigns to K12 education, the writing was on the wall. There is very little an industry certification can do to save a program that does not meet the UC A-G certification process. Our only option to date is to establish a process by which more and more transportation programs can comply and be certified to avoid being supplanted by academia.

Tough talk and bills such as AB 1330 help very little unless they are written with the CTE programs in mind. They are written as options and are very rarely adopted by school boards.

This in no case a stalemate situation, programs that fail to adopt an A-G mindset are quickly closed due to dropping enrollment and are soon closed, which has led to the high attrition rate of our CTE programs state wide.

This leads me back to the direction I was given by my mentor John Chocholak, to address the motions that passed at that meeting in 2011, they involved some very ambitious goals that included what seemed like impossible goals, so I will address them one at a time as they appeared on the minutes.

CAT BOARD 4/29/11

MOTIONED and passed with 100% yes vote:

CAT approved automotive courses of study:

1. The CAT Board supports and authorizes the development of an approved CAT Introductory auto program for middle school students to expose them to and

Prepare them for further study of automotive technology in high school.

(Continued on page 22)

ASCCA has opened their meetings to technicians, which means they will have some technical sessions as a part of their Summer Conference. This is good news for teachers and the Techs in the field. I hope some of you can attend next June. I will keep you posted on the date and place in our Spring newsletter. This is an organization that we all should support by joining as a teacher. The cost is very minimal at \$25 a year. See your local ASCCA chapter or call the ASCCA Sacramento office at 800-810-4272 or 916-924-9054.

Each December, your CAT Board meets in Sacramento for its annual all day work session. It is amazing the amount of work that gets accomplished when you have all day. More amazing is when they are at the Board meeting, they leave their egos outside in the hallway. During the meeting, they have one thing in mind and that is being productive for the good of CAT. These all day sessions allow CAT to function smoothly and produce conferences that you enjoy.

On the 23rd of July, CalABC Board (California Automotive Business Coalition), which CAT has a seat on that Board, had an all day meeting and it looks like they will be refocusing and have decided to eliminate their Foundation. Unfortunately, this leaves the ATTS program out in the dark at this time. I am working with

Fall 2014 Conference Highlights By Phil Jelinek

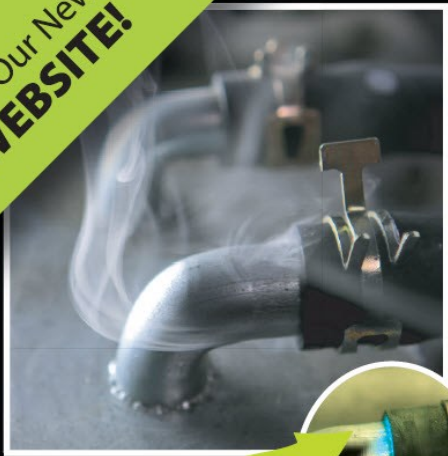
As the 1st Past President of CAT, it is my responsibility to coordinate the conferences by helping those who step up to host our Spring and Fall conferences. CAT supplies the host school with a framework to guide them through the process and it has worked quite well from the responses I have received from the hosting schools.

Our fall conference this year was at LA Trade Tech. The twenty-five acre campus is located on the southern edge of South Park, a neighborhood in Downtown Los Angeles. The campus is served by the Grand Avenue Station of the Metro Rail Blue Line and the 23rd Street Station of the Expo Line and is approximately one mile north of the University of Southern California. Founded as the Frank Wiggins Trade School in 1925 the college is the oldest of the nine campuses of the Los Angeles Community College District. After World War II the school became the Metropolitan Polytechnical High School and later Metropolitan College. The school became Trade-Technical Junior College in 1954. In 1969 the college became a part of the Los Angeles Community College District.

LA Trade Tech, with its rich history, was a great setting for this years fall conference. There were over 180 participants, vendors, faculty and staff in attendance. Our field trips consisted of visiting the Nethercutt Museum, the Petersen Museum and the NHRA Museum. Special thanks for a well run conference goes to: Joseph Guerrieri, Dean, LA Trade-Tech and Jess Guerra, Associate Professor, Department Chair, LA Trade-Tech. A very special thank you goes to Dan Encinas and his two daughters for setting up the tours, having a smooth check-in process, laying out the vendor area, organizing the presentations and luncheon, and guiding the overall tone of the conference.

Hope to see you at Skyline College in San Bruno, CA.

See Our New
WEBSITE!



STAR Technology meets SAE International technical papers inert gas recommendations for safer EVAP testing.
(2008-01-0554 & 2007-01-1235)



Free EVAP Teaching Resources

Get articles, PowerPoints, video, graphics & more...

StarEnviroTech.com *click on Educator*

◀ The Only OEM-Approved,
Contaminant-Free Smoke Dye.

**Check
it out!**

OBDII **DTC** lookup
DTClookup.com



Hire-ED

World-Class Instructional Content

Prepare students for ASE Certification and for success as a working technician with these updated texts and shop manuals from G-W. All are correlated to the 2013 NATEF Task List.

To learn more, visit www.g-w.com/preview or call 800.323.0440

**New
from G-W**



Drive an Instructor-led Automotive Course with G-W Online for ASE Certification

Content • Assessment • Course Management • Partnership

Visit www.g-wonline.com



Because of the special election at LATT, I have asked your current board members to remain in their positions for one more year. They all agreed. This will give Rich time to come up to speed and have a better understanding of how the CAT board works. So as a result a new Vice President will not be voted on in the spring 2015. However, the CAT board will still be looking for the next V.P. from the north. If you are interested, contact any of your board members.

On Friday November 7th I attended a meeting at the Foundation for California Community Colleges in Sacramento. Also at the meeting were representatives from the Outdoor Power Equipment manufacturers, C.A.R.B and Community Colleges. The title of the meeting was SEP: Small Engine Maintenance & Repair. The purpose of the meeting was to begin a discussion on developing curriculum that High Schools and Community Colleges can use to create successful training programs that will meet the needs of employers in the Outdoor Power Equipment market. Funds for the program will initially come from C.A.R.B's Supplemental Environmental Project or SEP. It was noted at the meeting the initial funding will most likely go to schools with existing Small Engine Programs. The attendee's were asked if we would agree to become the Subject Matter Experts for this program and all said yes. I think CAT has a great opportunity to help develop a program that meets the needs of our students and industry. I hope to have more information about the program by the spring conference. If anything comes up before that I will have it posted to the CAT website. Hey just another reason to check out our fantastic website.

Last couple of things to mention, first at the lunch meeting (Chabot College) I noted that the Institutional Membership is going to be terminated. There are not enough Colleges using it to make it financially viable. Second, the CAT Board will be initiating a follow up with regards to the small engine give-away program. If your school received these engines and are not using them please contact Armando Hernandez or Steve Tomory. Our contract with the State of California requires the engines be used or returned so we can distribute them to other schools.

Well that about does it for me. Hope to see you all at Skyline College for the spring 2015 CAT Conference!

A Message from the President

Mira Costa College will be hosting the Fall CAT Conference. I would like to take this opportunity to invite anyone who has thought about holding a training session to contact Tom Broxholm at Skyline College or Phil Jelinek, CAT's conference coordinator. We are always looking for great technical based training sessions or new and innovative ways to deliver material to our students.

WEBMASTER Report by Tom Broxholm

In December 2013 CAT signed additional years onto our contract with Cvent. Everyone agreed that registration and financial tracking has never been as good as it is using Cvent. This new commitment with Cvent came with a free training trip to Virginia to which I took advantage of this past summer. Cvent has rolled out a major upgrade which hopefully will make my job easier and your registration easy.



Our check-in process during our spring and fall 2014 conferences went extremely smooth due to the On-Arrival iPad app that links directly to Cvent and your registration. Unfortunately the application and the iPad was not fully used for registration during our Fall 2014 conference. Skyline College plans to use this application for the entire check-in process this spring.

The website has photos from our fall conference and a link to photos from past conferences so check it out. Skyline College (Spring 2015) and Miracosta College (Fall 2015) are both planning fantastic future conferences so plan ahead. Skyline College will be offering several classes on Friday along with 2 tours in addition to classes on Saturday. If you want additional NATEF training you may want to plan for the additional day. As always, if you have any account or registration problem or need to update your information with CAT don't hesitate to contact me by using the "Contact Webmaster" link on the website.

Become a BAR Certified Instructor!

Interested in becoming a Bureau of Automotive Repair (BAR) Certified Instructor for the California's Smog Check Program?

The BAR Certified Instructor Program is designed to ensure high standards among our educators and will consist of the successful completion of the following multi-part procedure: Application, Self-Study/Training Assessment, Submission of a Lesson Plan, Presentation with Classroom Demonstration(s), Computer-Based Presentation. The testing schedule below is tentative for the remainder of 2015:

Tuesday, June 3, 2015: Written assessment (Both locations)

Tuesday, August 4, 2015: Oral Presentations: Rancho Cordova

Wednesday, August 5th & Thursday, August 6th 2015: Oral presentations: South El Monte

Wednesday, September 2, 2015: Written assessment (Both locations)

Tuesday, November 3, 2015: Oral Presentation: Rancho Cordova

Wednesday, November 4th & Thursday, November 5th, 2015: Oral Presentations: South El Monte

For more information, please contact Janelle Calindas at the Bureau of Automotive Repair at (916) 403-0151 or by email: Janelle.Calindas@dca.ca.gov

Spring 2014 Conference Highlights By Phil Jelinek

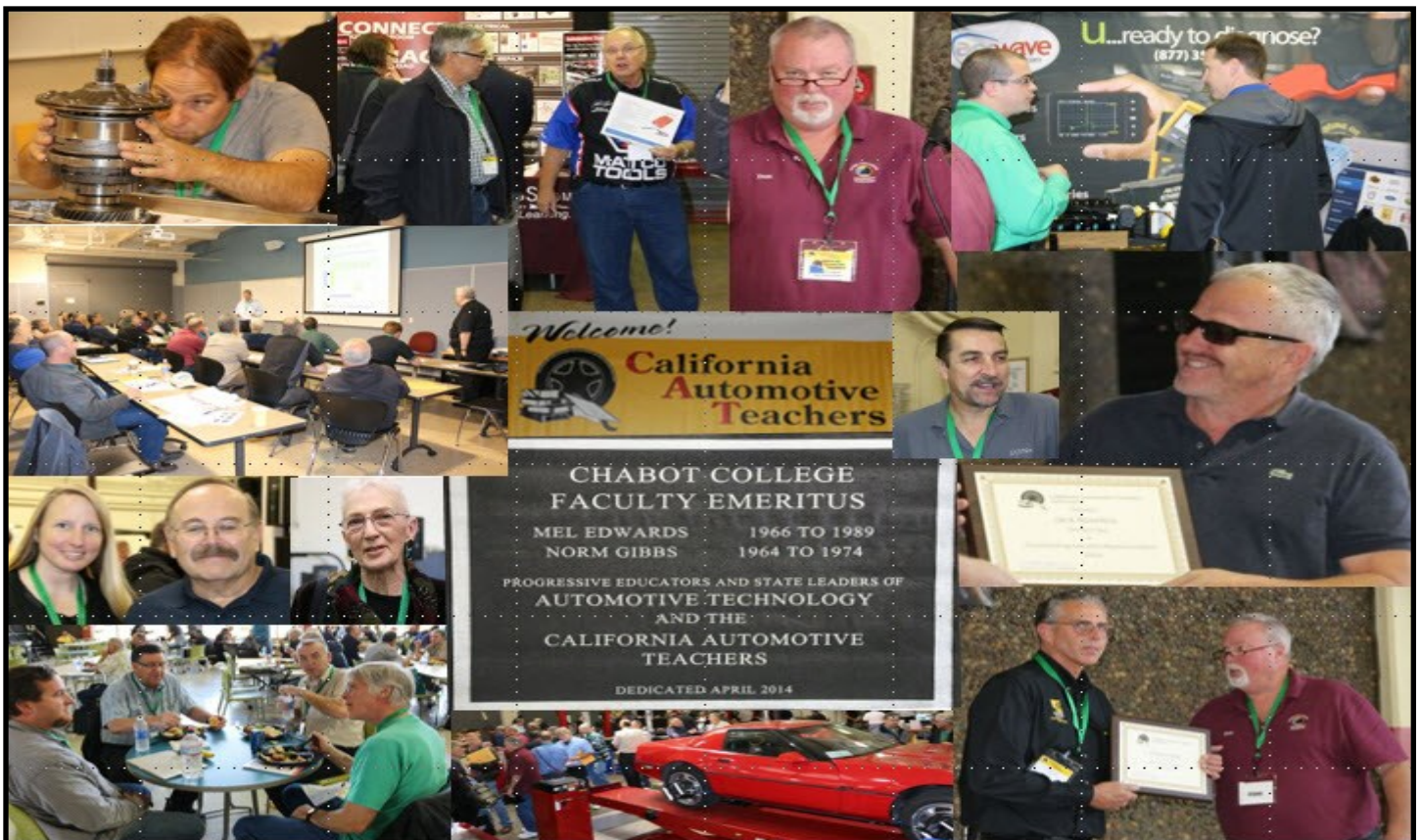
As the 1st Past President of CAT, it is my responsibility to coordinate the conferences by assisting those who step up to host our Spring and Fall conferences. CAT supplies the host school with a framework to guide them through the process and from the responses I have received from the hosting schools, it has worked quite well.

Our Spring conference this year was at Chabot Community College, the place where two of our (CAT) founding members, Mel Edwards and Norm Gibbs, taught. A plaque was presented to the college honoring these two visionaries.

The Friday tours were to the Oakland Air Museum and Maier Racing Enterprises. I attended the Oakland Air Museum and it was educational and informative to see and hear about the history of air travel and the Oakland airport come alive through our guides direction.

The seminars informed and educated our members in topics such as basic as Electricity, the Internal Combustion Engine, Diesel Diagnosis, and using Smoke Machines, to Engaging Today's Learners and incorporating STEM in the Classroom. We also had quite a number of hands-on classes including Learning about the Modified Simpson Planetary Gearset and Understanding CAN Codes and OBD II. We had 23 vendors share their wares with our members and show us the latest and greatest in what is new in education.

A special thanks to Steve Small and his staff from Chabot College for putting on a great conference.



state, where all levels of education had been severely reduced. Funding for the community college system more or less stabilized. But these restrictive regulations are still in place.

The regulations aimed to cut down enrollment in the arts and physical education, where statewide enrollment was high. Under pressure to cut enrollments, and in conjunction with other trends in education leaning towards objectives and outcomes, the Academic Senate for California Community Colleges (ASCCC) provided guidance (in 2011) that informed the new regulations. The thinking behind this was that curriculum should be leveled where appropriate, and students should not need to repeat a course that they have passed successfully. As ASCCC leaders explain in a recent article, “The educational principle behind credit courses is based on achieving objectives and outcomes . . . If the student achieves those objectives and outcomes, the student passes; if the student does not, the student should not pass.”

Under the recent regulations a student can only successfully complete a course one time in most cases. There is an additional factor for students in the arts and kinesiology: students may have no more than four enrollments in any given group of active participatory courses that are related in content (commonly known as a family of courses). This is a huge blow to anyone serious about art, especially those students who didn’t (and don’t) have access to private music, theater, or other arts classes. In many cases, the new regulations make the maximum number of courses allowed in community colleges the minimum needed for transfer to State or UC. This doesn’t take into account the fact that some students may need more than that minimum to build proficient performance skills and portfolios that will be needed to get in many four-year colleges. Cabrillo has sent many students of the visual and performing arts to top-notch institutions in the past; will now be restricted from following similar paths of success.

Other areas impacted by these changes include the Career and Technical Education (CTE) programs such as Journalism, Digital Media, Computer Information Systems, Welding, Automotive, and Culinary Arts, areas where curriculum or technology changes over time or where students may need additional practice with the course material (note that a petition process is applicable in situations that are needed for transfer or certificates). Students are also limited in areas such as Creative Writing and World languages. And Work Experience students/courses have been heavily impacted (the ASCCC is in the process of addressing this item.)

Overall, the changes to repeatability align with a narrow vision of colleges that focuses on academic transfer and CTE certificate or licensing programs and allows students two years to get through the system. It

does not take into account those updating skills for jobs not associated with licensing requirement or students attempting to pursue goals outside of transfer.

These regulations have gone too far. While some colleges have managed the curriculum in a way that enables them to maintain their programs, from what we are hearing students in numerous programs across the state are, and will continue to be, severely impacted by these regulations.

We would love nothing more than to get back to a Master Plan Vision of education that provides quality education for all Californians. In the meantime, we'd like to save our art programs and bring back access for students who may need to repeat a course for a reason other than (low level) transfer or a certificate. We hope you will join us.

What you can do:

Sign up for email alerts by sending an email to ccft@ccftcabrillo.org; please include repeatability advocacy in the title.

Sign our online petition at: <http://chn.ge/1m4lCET>

The ASCCC passed a resolution at the at their plenary session last week (Nov. 13-14, 2014) that they will:

1. Gather information from local senates about the impact of the program level of the 2012 changes to the repeatability regulations and hold a breakout session at the Spring 2015 Plenary;
2. Research the impact at the program level of the 2012 changes to the repeatability regulations, use the research to inform possible future actions or guidance regarding this issue, and present the research at the Spring 2016 Plenary Session.

Follow up is needed in your local senates. If your program faculty are affected by this, please be sure to get local senates on board!

Encourage your organizations to support rescinding or modifying these regulations. In particular, we need support from:

1. Student Senates & Clubs
2. Legislators
3. Local Governing Boards
4. The Community College Board of Governors

This article appeared in the AFT 1493 Advocate Newsletter

for the San Mateo Community College District.



**CERTIFY YOUR STUDENTS
FOR SUCCESS. OFFER THEM
TOOLS FOR LIFE.**



Built on the foundation of the most trusted brand in the industry, Snap-on provides the essential TOOLS FOR LIFE that shape the future of tomorrow's workforce – certification programs, industry-supported curriculum and hands-on training with Snap-on products.

Your school can see increased recruitment and enrollment, improved student retention and higher placement rates through a Snap-on partnership. Only Snap-on offers certification courses to help train and prepare students for their career as automotive or industry technicians. Our eight to 16-hour courses are integrated into your existing programs, giving students a leg up on the competition.

Snap-on Certifications are offered in Automotive Scanner Diagnostics, Diesel Scanner Diagnostics, Mechanical and Electronic Torque, Multimeter, Wheel Service and Alignment, and Asset Management.



For more information, visit education.snapon.com,
or email education@snapon.com.

Snap-on is a proud partner of the National Coalition of Certification Centers.



Snap-on is a trademark of Snap-on Incorporated.
©Snap-on Incorporated 2014. Printed in the U.S.A.



Tap into a **personalized** teaching experience

MindTap offers assignments that guide students to analyze, apply, and improve thinking, allowing you to measure skills and outcomes with ease.

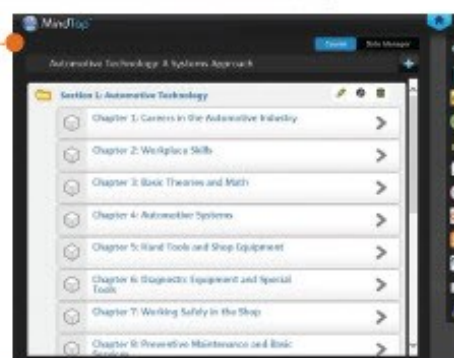
Elevate Thinking

Relevant readings, multimedia, and activities are designed to take students up the levels of learning, from basic knowledge to analysis and application.



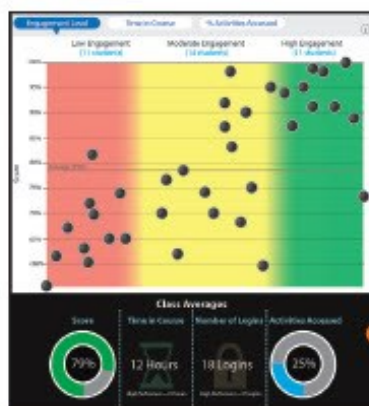
Easily Set Your Course

Personalized teaching becomes yours through a Learning Path built with key student objectives and your syllabus in mind. Control what students see and when they see it.



Promote Better Outcomes

Analytics and reports provide a snapshot of class progress, time in course, engagement and completion rates.



MindTaps for Transportation Technology

Erjavec, Automotive Technology: A Systems Approach, 6e
 Bennett, Heavy Duty Truck Systems, 6e
 Duffy, Auto Body Repair Technology, 6e
 Gilles, Automotive Service, 5e
 Pickerill, Today's Technician: Automotive Brake Systems, 6e
 Hollembeak, Today's Technician: Automotive Electricity & Electronics, 6e
 Pickerill, Today's Technician: Automotive Engine Performance, 6e

Hadfield, Today's Technician: Automotive Engine Repair & Rebuilding, 5e
 Schnubel, Today's Technician: Automotive Suspension & Steering, 6e
 Hadfield, Today's Technician: Basic Automotive Service & Systems, 5e
 Schnubel, Today's Technician: Automotive Heating & Air Conditioning, 6e
 Erjavec & Pickerill, Today's Technician: Automatic Transmissions & Transaxles, 6e
 Erjavec & Ronan, Today's Technician: Manual Transmissions & Transaxles, 6e

"We have seen an increase of at least one letter grade when we compare the performance of students who used MindTap with those who didn't." – Scott Domowicz, Erie Institute of Technology

For more information on MindTap visit www.cengage.com/mindtap
 To view all automotive products offered by Cengage Learning visit
www.cengage.com/automotive/cg

For a product demonstration, please contact your sales representative or call 800-423-0563



Ask about Cengage Learning's award-winning product!



DREW TECHNOLOGIES

IMCLEAN

California BAR OBDII Emissions Tools

Drew Technologies, a global leader in advanced diagnostics and dealership diagnostics is working with BAR to develop the new BAR-OIS system for OBDII.

IMClean BAR-OIS
DAD Tools
start at \$1,295



Complete Banalogic Kiosk Solutions
Starting at \$3,995.



IMREADY

Low-Cost
IMReady I/M readiness
monitoring testers.



CARDAQ

CarDaq Series
Award Winning J2534
Diagnostic and Reprogramming
tools.



Kiosk Solutions By:

BANALOGIC

www.banalogic.com
888-501-7746

Patent(s) Pending

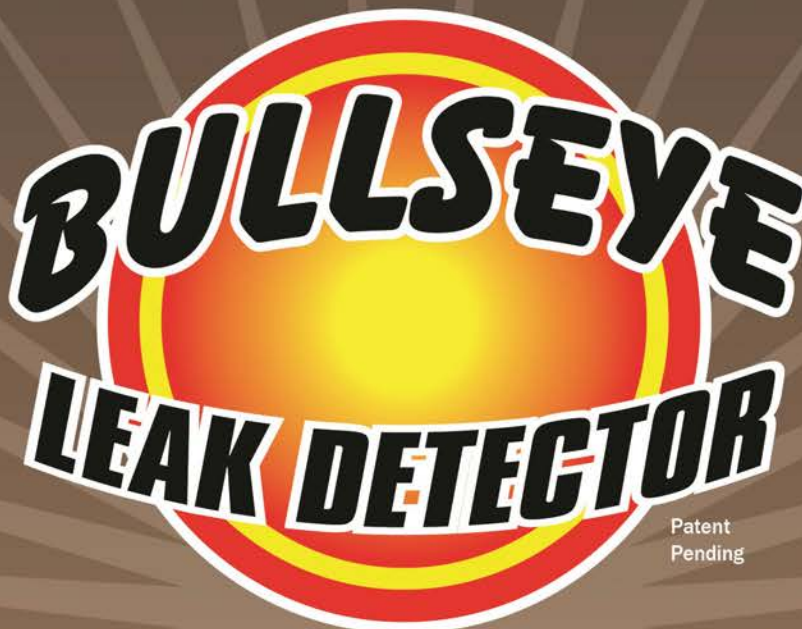


**Drew
Technologies, Inc.**
www.drewtech.com
877-888-2534

Still Can't Find That Leak?



GO SMOKELESS WITH THE REVOLUTIONARY



Patent
Pending

EVAP LEAKS & A/C LEAKS
ARE EASY TO FIND!



FIND VERY SMALL LEAKS
QUICKLY AND ACCURATELY!

FIND LEAKS QUICKLY AND ACCURATELY IN ALL SEALED SYSTEMS IN 3 EASY STEPS



1. BULLSEYE Leak Detector pressurizes the sealed system with CO2 gas.



2. BULLSEYE Leak Detector quickly and precisely locates the leak site area.



3. BULLSEYE Leak Seeker Foam changes color to pinpoint the leak site.

Finds leaks in EVAP systems, A/C systems, engine cooling systems, head gaskets, tires and wheels, air ride suspensions, and much more...



See the Video

800-572-6112 • AutomotiveTestSolutions.com

Excellence in Education

Armando Hernandez—Schurr HS

Hometown: East Los Angeles, California

Current City of Residence: Montebello, CA

Training/certificates: Masters in Educational Administrative Credential, Clear designated subjects

Automotive experience and how many years at each: Heavy Line Tech, Walker Bros. Jeep Eagle-1987-1990



The Southern California Gas Company heavy line tech- 1990- Present

Automotive instructor The Southern California Gas Company- 2007-present

Senior Automotive Fleet Instructor, The Southern California Gas Company and San Diego Gas and Electric- Present.

Automotive instructor - Los Altos High School, Hacienda Heights 1995- 1997

Automotive Instructor - Schurr High School-1997-present

How did you get your start: Phone call from phone my high school Auto shop Instructor Vic Kim. He and I still ride dirt bikes together and take our families camping together.

Hobbies: Dirt Bikes, Hill Climbs like the Widowmaker in Croydon, Utah, Skips at Carnegie Hill Climb, Jawbone Canyon Big Hill Climb, teaching my boys to work on cars and motorcycles, golf, shooting, fishing, skiing.

Favorite TV programs: Swamp people, Counting cars, How its Made, Wicked Tuna, Deadliest Catch.

What was your first job and what was the pay: I used to wash and tune-up cars on used car lots in East Los Angeles from the age of 11 until I was 15. We had a family friend that owned a car lot and when he gave me an opportunity he recommended me to his friends. It was piece meal so I got paid differently for each job, more like a donation for spending cash.

What is your dream job: I would like to work directly for the governor's office to have a direct influence in Secondary CTE.

Person you most admired and why: My Father, he was born and grew up very poor in south Texas, he is easily the smartest and hardest working man I have ever met. He retired from Oscar Mayer in the eighties with

(Continued on page 18)

the highest seniority of the Butchers in Vernon. He worked the last years there before it was closed and after the union was busted. His pay was cut in half but he never quit due to the threat of losing his pension, after almost forty years there his pension was later reinvested by Phillip Morris in a little company called Enron. He still brings me lunch to school every day without fail, he is my best friend!

Life changing experience: Children, they are the best. They give you purpose and reason to wake up every day.

If you were granted one wish, what would it be: To end violence. I like to imagine all the great things we could do around the world if we could just do that.

What changes have you seen in your classroom over your career: the destruction of many CTE programs due the UC system controlling secondary education.

What is the biggest problem you see for the automotive teacher: unfortunately when the secondary and post-secondary academia fails, they seek additional resources at the expense of CTE and other non-required programs like ROP. CTE programs have not been targeted because they have failed, they are identified as different, or through attrition, they are eliminated to make room for more academic programs. We need to stop the UC system from driving secondary instruction. I often hear of highly supported programs in California that are regionally politically supported, but inner city schools and communities are not afforded the same luxuries. In dense communities the large budgets are consumed by large populations.

What is the biggest problem you see facing the automotive industry today: regulatory mandates and technology that is relatively cheap to mass produce but very expensive to repair and usually at the expense of the technicians. Techs are usually behind the curve when it comes to training and most OEMs are not investing in their technicians' professional development like in years past due to competition and the cost of overhead.

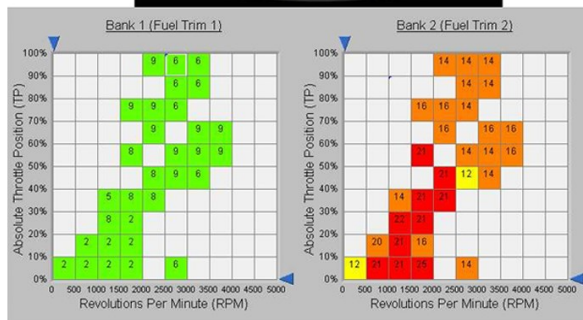
What was the first car you owned and how did you afford it: 1967 Camaro, it was given to me my senior year in school by a friend and his mother. It was a gift for all the help I had given him over the years on his cars. Engine swaps until midnight, tune ups, brake jobs, etc. I sold it five years later for a down payment on my first house, I still miss that car.

What are your favorite automotive magazines: Motor, Fleet Manager, Dirt bike.

Favorite quote: Tell me and I will forget, teach me and I will remember, include me and I will learn. Benjamin Franklin.

Diagnostics for Professionals

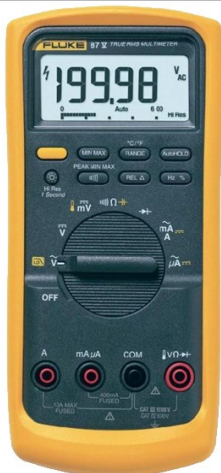
Let AESwave support your tool & equipment needs.



Fuel trim at a glance!
(AES# ATS-ESN2000)



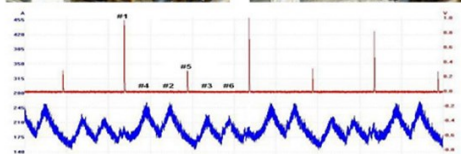
If you can use a meter, you can use this
Quick Scope!
(AES# uScope)



25% discount
on Fluke Meters
and accessories
(AES# F-Promo)

ScannerDanner's

**Engine Performance
Diagnostics**



ScannerDanner's
405-page diagnostic
"Toolbox"
(AES# SD-10)



Bartec TPMS
One tool for imports
and domestics
(AES# B-500)



All you need is just one contact:

one Email address: one@aeswave.com

one Phone number: (877) 351 9573

www.aeswave.com

What are Permanent Diagnostic Trouble Codes?

by Steve Caruso

Permanent-Diagnostic Trouble Codes (DTC) are a part of California Code and Regulations that were phased-in on the vehicle's On-Board Diagnostic (OBD) systems. It started with model years 2010 through 2012 on all passenger and light duty vehicles with Gasoline and Diesel engines. Beginning with model year 2010, Permanent-DTCs were phased-in at 50% of the fleet, 75% in model year 2011, and was 100% implemented in model year 2012. The Environmental Protection Agency (EPA) adopted California's law so that there would be less confusion among the manufacturer's implementing this regulation between the two emission standards. This means California and Federal vehicles will all have Permanent-DTC's.



What makes the Permanent-DTC uniquely different from a Regular-DTC, is that Permanent-DTCs are stored in a memory that cannot be erased with scan tools (generic, aftermarket, or manufacturer-specific) or by disconnecting the battery. Permanent-DTC's can only be erased by the OBD system itself. When the Malfunction Indicator Light (MIL) is commanded "on" in a vehicle that supports Permanent-DTCs, the trouble code is stored as both a Regular-DTC and as a Permanent-DTC. Unlike the Regular-DTC, the Permanent-DTC is written to a non-volatile memory (NVRAM) at the end of the key cycle.

So how do I erase Permanent DTC's? Once stored, Permanent-DTCs can only be erased by the OBD system itself in two ways; **Self-Healing** and **Healed**.

Self-Healing - If a scan tool "code clear" has *not* been requested, the Permanent-DTC will be erased at the same time the MIL turns off.(i.e. if the OBD system detects that a fault is no longer present; it will extinguish the MIL and erase the Permanent-DTC).

Healed - If a scan tool "code clear" command was requested, (i.e. technician clears codes after repairing a fault) the Permanent-DTC will not be erased until the Monitor or condition responsible for setting that specific Permanent-DTC has run at least once and confirmed that the fault is no longer present.

The OBD system is designed to be able to store at least four Permanent-DTC's at one time. Should a vehicle have more than one DTC currently commanding the MIL, then only the current faults would be stored as Permanent-DTC's. These will not be erased until the Monitors responsible for each of the Permanent-DTC's have run and confirmed that each of the faults have been corrected. Permanent-DTC's are read on a scan tool under the request of Service Mode \$0A and Regular-DTCs are read under the request of Service Mode \$03. This is done to distinguish the difference between the two types of codes.

ConsuLab trainers keeping up with ever-changing technology

You may have seen our **EM-2000 A/C trainer** at various shows. But did you know we now have a new version of this trainer that uses H-Block TXV design of refrigerant flow control?



Request quote by emailing:
info@consulab.com
Product ID: 53094



Request quote by emailing:
info@consulab.com
Product ID: 52944

The **EC-140H Cutaway Toyota Prius Hybrid GEN II Drive Train** is a training system designed specifically for teaching how a typical hybrid drive train operates. The trainer consists of all cutaway drive train components from a Toyota Gen II Hybrid Synergy Drive system

Due to the current California middle school curriculum, transportation curricula have been proposed however it is not under the authority of our advisory to implement. Our work is continuously considered and we do collaborate to drive middle school instruction.

2. The CAT Board supports and authorizes the development of an approved CAT first year introductory auto program for high school students to expose them to and prepare them for further study of advanced automotive technology in high school and ROP programs.

The current Transportation sector standards have been written and adopted by the State department of education. They were written over the last few years by the transportation standards writing team, which consists of two CAT members, Steve Tomory from Rio Hondo College and Schurr High Schools, Armando Hernandez, the high school and ROP representative from CAT.

(Continued on page 23)



MATCO TOOLS

MATCO TOOLS TechEd Program

School & Instructor Discounts Up to 60% Off

FREE - NATEF Certification Spreadsheets

All Types of Shop Equipment Available

Latest Diagnostic Equipment / Low Prices

FREE Shipping - Quotes in 24 Hours

Simulators – Trainers - Cutaways

Tech Ed Only Customer Service Number

You can spend more, but you can't buy better!

Serving all of California
Brian Stranahan 909-989-3833 / Stranahan@earthlink.net





AVAILABLE IN:

- ✓ Hardcover
- ✓ Paperback
- ✓ eBook

New 3rd Edition in FULL Color!

AUTO UPKEEP
BASIC CAR CARE, MAINTENANCE, AND REPAIR
3RD EDITION
No Support NATEF
MICHAEL E. GRAY AND LINDA E. GRAY

CORRELATED TO THE NEW NATEF MLR TASKS
Looking for an Introductory Auto text that is reasonably priced? Auto Upkeep correlates to over 50% of MLR Tasks, making it an ideal first course text in a NATEF program.

www.AutoUpkeep.com

Request a FREE preview copy at:
Rolling Hills Publishing
Phone: 1-800-918-7323
info@autoupkeep.com



3. The CAT Board supports and authorizes the development of approved CAT Frameworks and Standards for introductory auto programs for middle schools, high schools and ROPs that are based on and meet current automotive industry standards developed by recognized automotive industry standards organizations.

I am currently a member of the Department of Education's Curriculum review team, The Standards writing team and the State advisory team representing the Sempra Utilities, The southern California Gas Co and San Diego Gas and Electric. The work he and Steve collaborated on has set in place standards that are adaptable to every automotive program in the state and since completing this work the state transportation standards have been adopted across the nation.

4. The CAT board requests seats at the Frameworks and Standards "table" for input into the current formulation and revisions of the Frameworks and Standards for middle school, high school and ROP programs in the California public school programs.

Steve and I are currently and have for the past few years been serving as advisors to the state curriculum writing teams that develop the frameworks for middle schools, high schools, and ROPs.

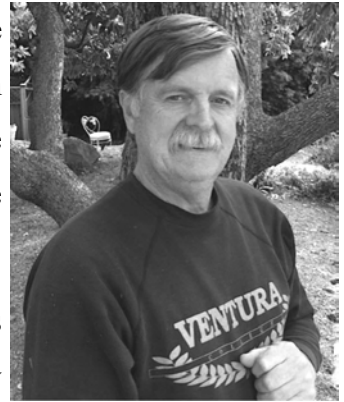
5. The CAT board requests the California Department of Education fulfill the requirements of Education Code Section 51226 and develop specific Frameworks and Standards for middle school, high school and ROP level auto programs. **See #3** I, along with the help of Steve Tomory, Janet Malig, and Dara Dubois from the Department of Education am currently working on writing a four year sequence of A-G approved courses that will hopefully be approved by the California State Department of education. Through the help of Dara Dubois and Janet Malig we will be looking to send these courses to the board of regents for statewide approval.

I understand now what a tremendous responsibility it is to take on the Post-Secondary education system and represent not only the programs that are still in operation but also the students that depend on us to deliver the marketable skills they will need to provide for their families. When will everyone in education start make their decisions by starting their process with questions like "what is best for the kids?", and not "What is best for the institution?" When will we figure out that we are obligated to provide a comprehensive education to all students based on their needs and dreams? If everyone is required to pay taxes, then are we not obligated to provide everyone with an education that they can use? We must move education to be more comprehensive in its approach and only then can we expect to be more successful as a process.

Farewell to Teaching – Making a Difference

By Chuck Rockwood

Retire? I retired last May but, don't yet feel retired. I'm still thinking about the students and the program. The students have always been my number one concern and now that I have handed over the reins it is tough to let go. Fortunately, the program is in good hands and a caring energetic young man has been hired to take my place. In time I'm sure I will ease into my new life.



Why did I retire? I didn't feel that old. Just old men retire, right? But, I was starting to realize that I was losing interest in newer cars and the old cars that I grew up with and love were not relevant to the students. Times change and we either change or get out of the way. The eighteen year olds who always provided a naive prospective and comic relief were starting to be an irritant and distraction. My time was being diverted by management away from the things that really help the students. There was too much playing school and not enough about the students. There were too many new managers too often. At one time, the Dean changed so often we coined the term "Dean of the Month". How can you have consistency and build a program when your time is spent educating management that cars aren't repaired by grease moneys.

What it really comes down to is, the students. As a teacher, the greatest success is a student's success. As I see it there are three groups of students in every class. The top 10% that will make it in spite of us, they already have the passion. A little guidance and away they go. We only need to get out of the way and provide them with the opportunity to explore and learn. The 10% at the bottom have many reasons for being in class, but lack the basic interest, skills and passion. And finally the middle 80%, these are the students who need our assistance, guidance and encouragement. It's the middle 80% that we can really help. These are the students that have a lot of baggage they bring to school. Many have dug themselves a hole and now need help climbing out, or they aren't sure what they really want to do, or even the student that loves cars but just doesn't have the aptitude. Here we can make a difference.

I was like many of our students. I had dug a big hole and needed help getting out. I graduated from high school unable to spell and thus unable to write. I had no encouragement, little family support. I started having children when I was too young. I knew about digging holes and needed help. I needed people who cared enough to make a difference.

I have been fortunate I encountered people who made a difference. My high school auto teacher had the passion, he made a difference. He once told me that it's the light in a student's eye when they get it, was the

(Continued on page 25)

most fulfilling for him. He inspired me to become an auto teacher. There was my college auto instructor whose indifference inspired me to make a difference. There was a college history teacher who worked with me on my spelling and the college administrator that would correct my grammar. There was and still is my mentor who had faith in me and encouraged me to pursue my dream. Whether they knew it or not all these people made a difference and I thank them. I was truly blessed, I had a job I loved and I was in turn able to make a difference.

So, what am I going to do in retirement? Spend time with family, work on all the unfinished projects, go to Stanford football games, learn to let go. The rest I'm not sure but, everyone tells me that life will get real busy.

A dream without ambition is like a car without gas... you're not going anywhere.

Sean Hampton

It's what you learn after you know it all that counts. ~Attributed to Harry S Truman

A Message from the Newsletter Editor!

We always need technical articles to share with our members.

If you have an article for the newsletter

(it is never too early) please email them to:

rick@calautoteachers.com

Apology from the Newsletter Letter

While I am extremely proud of all the previous newsletters that I have produced as your editor, please accept my apology for not providing CAT members with the last two issues of the newsletter. No excuses, I just didn't place the highest priority on getting the job done.

Despite the fact I am retiring on May 23, my plan is to continue on as the Editor of the CAT Newsletter. This should provide me some additional time hunt down articles and advertisements. Each one of you can make my job as your Editor easier by keeping your eyes open for articles that are technical in nature or even human interest stories related to automotive.

Sincerely,

Rick Escalambre

Is Your Program Being Impacted by the Inability to Repeat Courses?

The inability to repeat courses is taking a toll on many programs throughout the state. Automotive in particular is one of those programs. Programs are being forced to spend countless hours creating new courses or modifying existing courses. Technology as it relates to the automotive field is constantly evolving and our students need the opportunity to repeat our courses. I am sure most of you are constantly modifying your curriculum to meet the changing technology but you don't feel the need to submit a course modification to the scrutiny of your curriculum committee.

If you have recently gone through Program Review and looked at enrollment trends in your short courses you may have noticed a negative trend in enrollment. This trend has been on steady decline over the last four years since students have not been allowed to repeat your courses. So.....get your Advisory Board involved as we did at Skyline College. The following letter was given to AFT and the Academic Senate. The AFT included it in a recent issue of their newsletter and Academic Senate has been moving on the issue.

.....

The Skyline College Automotive Technology Advisory Board is concerned about the inability of our technicians to repeat automotive classes. The lack of repeatability is having a negative impact on our industry because we rely on Skyline College to provide current and relevant information to our technicians. The content of the courses offered at Skyline College is constantly being updated to address the changes taking place in the industry.

Our technicians should not be blocked from repeating courses. The department should not have to submit new course offerings every few years so our technicians and take a similar class with a new name and number.

In summary, the Advisory Board supports course repeatability for Career Technical Educations programs. It is a benefit to the automotive repair industry to have automotive programs that conduct training that is on the leading edge of technology.

The Skyline College Automotive Technology Advisory Board has the read recommended changes to course repeatability and ask that these changes be implemented by State of California Chancellor's Office as soon as possible.

Sincerely,

Skyline College Automotive Advisory Board

GM J1850 OBD II model 2652



GM J1850 OBD II Features:

- » Performs OBD II Drive Cycle.
- » Connects to Scan Tool (not included) via the DLC Connector.
- » Fuel Trim Control

Electronic Ignition (EI) System model 1772



Features:

- New vehicle components, connectors, and factory wire colors.
- Operate as stand-alone trainers to teach and demonstrate engine control, transmission control, and electronic ignition.
- Combined operation with the optional Interconnect Cable (model 2657).
- Provides an advanced level of instruction by duplicating on-vehicle troubleshooting procedures.
- Intermittent and hard faults can be inserted using the Instructor Management Program (IMP) via a computer connected to the trainer or over the ATech Network System (ANS).
- Hard faults can be inserted by using the built-in keypad on each trainer.
- Ability to perform service manual test procedures.
- Network and interconnect circuits are protected against over-current and polarity reversal.
- Courseware includes Instructor Guide, Student Manual, and Service Manual Information.

Electronic Ignition System Features:

- » Circuit Identification with Probe Points.
- » Actual Primary & Secondary Ignition Operation.
- » RPM Control

ATech Training, Inc.
12290 Chandler Drive • Walton, KY 41094
Ph: 859-485-7229 • Fax: 859-485-7299
E-mail: sales@atechtraining.com

ATech
Automotive Technology

EXECUTIVE DIRECTOR

Bob Barkhouse, bob4cat@sbcglobal.net

OFFICERS

PRESIDENT: Donald Schumacher, Yuba College,
dschumac@yccd.edu

VICE PRESIDENT: Richard Williams, Oxnard College
rwilliams@vcccd.edu

TREASURER: Steve Vail, Mira Costa College,
svail@miracosta.edu

HIGH SCHOOL/ROP: Armando Hernandez, Schurr HS
hernandez_armando@montebello.k12.ca.us

BOARD OF TRUSTEES

Jim Custeau, Cuyamaca College,
jim.custeau@gcccd.net

John Overton, Retired,
joverton@calautoteachers.com

Phil Jelinek, Retired,
pjelinek@calautoteachers.com



**California
Automotive
Teachers**

PRESIDENTIAL APPOINTMENTS

HISTORIAN: Tom Birch (1 Year Interim),
Retired,
tbirch@sebastiancorp.net

CONFERENCE COORDINATOR: Phil Jelinek,
Retired,
pjelinek@calautoteachers.com

EXHIBITOR CONTACT: Phil Jelinek,
Retired,
pjelinek@calautoteachers.com

NEWSLETTER: Rick Escalambre,
Skyline College,
rick@calautoteachers.com

WEBMASTER: Tom Broxholm,
Skyline College,
tom@calautoteachers.com

The CAT Newsletter is always looking for technical articles and advertisements! The deadline for submitting articles and ads is April 15th for the spring issue and October 15th for the fall issue. Articles should be submitted in Word. It is preferred that ads be submitted in JPEG or EPS formats, PDF will work but sometimes the text is distorted once it is placed into the newsletter. The cost and sizes for advertisements can be found on our Website.

**For additional information about the California Automotive Teachers' organization,
future conferences, job announcements, training opportunities, and much more:**

visit our WEBSITE at

www.calautoteachers.com

CAT Conference
Fall 2015
Mira Costa College
October 16 & 17

Conference Host Information

Phone:

760-757-2121 x 6354
svail@miracosta.edu

Mailing address:

Mira Cosa College
Steve Vail
1 Barnard Drive
Oceanside, CA 92056