



# TTC NEWSLETTER

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## Production Worker Training Gets Boost

A Production Worker Focus Group was recently held at the UAW-DaimlerChrysler Technology Training Center.



Eighteen participants met to discuss technical training needs of production workers.

Representatives hailed from ten locations:

- Detroit Axle (Local 961)
- Indiana Transmission (Local 685)
- Jefferson North Assembly (Local 7)
- Mack Avenue Engine I & II (Local 51)
- Mound Road Engine (Local 51)
- McGraw Glass (Local 227)



Focus Group brainstorming.

- Sterling Heights Assembly (Local 1700)
- Trenton Engine (Local 372)
- Warren Truck Assembly (Local 140)

Several key training areas were identified as priorities.

### Communicating Machine/Equipment Problems Effectively

Topics in this area include logical steps to take during problems, mechanical vs. electrical failures, proper documentation and using the



Reporting ideas to the Production Worker Focus Group.

Man Machine Interface (MMI) to identify problems.

### Measurement & Gaging for Product Quality

A course in this area involves topics such as quality assurance principles, product assessment, statistical process control, use of various gages and measurement devices, basic math, interpreting CMM

readouts, and understanding dimensions and tolerances.

### Metal Finish Repair

Areas covered will include identifying imperfections, using repair tools, filing and sanding procedures and different types of metal.

### Overview of Machines/Computers

Subject matter covered will include an overview of CNC machines including historical perspective, what CNCs are, and how to navigate and read screens.

The ideas generated by the day-long discussion will go a long way to assure that production workers receive the best possible technology training at the TTC.

## New Production Welding Course Sparks Interest



A new production worker welding course has been added to the TTC's lineup.

Weld Analysis (WYT 100)  
(continued on page 2)

(from page 1)

covers the fundamentals of Gas Metal Arc and Flux Cored Arc Welding Processes and weld inspection techniques. The training is both classroom and hands-on.

The hands-on portion will emphasize practice in identifying acceptable and bad welds, and the probable cause of weld discontinuity.



- Topics include how to:
- Identify a good weld so that a plant may establish or improve the welding quality control.
  - Identify types of welds and joint design.
  - Understand the major welding processes.
  - Identify and list weld parts.
  - Identify major causes of bad welds and take corrective actions.
  - Find DaimlerChrysler standards relating to welding processes and repair of bad or missing welds.

The course is available by special request only. Call your plant's Technology Training Center (TTC) liaison for more information.

## New TTC On Schedule

The UAW-DaimlerChrysler Technology Training Center's new facility is on schedule to open this fall.

Just a short distance away from the existing facility, the all-new state-of-the-art training facility will be located at 2500 East 9 Mile Road in Warren, Michigan.

One of the primary benefits will be the availability of workspace on the ground floor.

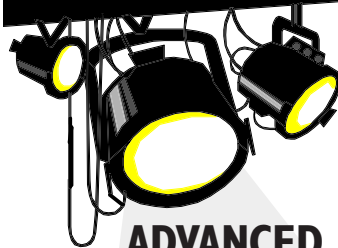
Heavy equipment and machinery such as robots can be brought in and taken out much more easily than is currently possible at the present facility which is located on the second floor.

As a result, a wider variety of up-to-date courses can be offered.

Other benefits include more lab space, extra work bays, additional welding booths, a larger resource library and ample parking.

Watch your mail and future issues of the *TTC Newsletter* for more details.

### SPOTLIGHT ON...



### ADVANCED FIBER OPTICS

*Advanced Fiber Optics* (FOT 310) is a prime example of the kind of hands-on cutting edge technology training available at the TTC.



Trainer George Kocher (standing, r) explains a lab activity.

Set in a specially constructed lab, the course picks up where its prerequisite, *Fiber Optics Installation, Maintenance and Troubleshooting* (FOT 110), leaves off.

Advanced concepts and techniques are discussed in great detail. Participants then have the opportunity to immediately apply what they've learned.

The course contains hands-on activities on how to:

- Design, build, and troubleshoot a fiber optic data system including calculating the loss budget.
- Correctly install splice cases.
- Mount and test a variety of fiber optic connectors and splices.
- Splice fiber cables using fusion and mechanical techniques.
- Understand and implement FOTP 171 and FOSTP 14 standards.
- Correctly install cable.
- Diagnose problems and document circuit condition using an ODTR and optical

(continued on page 3)

(from page 2)



*Hands-on experience with splicing fiber optic firewire.*

loss test set.

- Meet DaimlerChrysler fiber standards.

In addition, participants will earn 3M products certification as well as certification as a Fiber Optic Technician from the Fiber Optics Association after the successful completion of a voluntary test.

Instructor George Kocher has more than 24 years teaching experience and 9 years of research experience in the field of telecommunications.

He explains the benefits of fiber optic training, “This is a desirable skill to be added to the electrician’s toolbox. Fiber is now found more and more on new equipment coming into the plants. Copper communication lines are being converted because of fiber’s superior capacity.”

George believes the time is right to get training, “There was a time that electricians did not work with fiber optics, but that is changing and more and more electricians need this training as they are being allowed to work

on fiber.”

Advanced Fiber Optics is ideal for Electricians and other Skilled Trades workers who want to upgrade their skills in the installation, maintenance, and troubleshooting of fiber optic cable.

## Fluid Power Certification Earned

Since the first Fluid Power Certification course debuted in December of 1999, a dozen more sessions in Hydraulic Mechanic and Pneumatic Mechanic certification have been held at the TTC.

Many participants have fulfilled the requirements to become certified by the Fluid Power Society.

All participants have become members of the Fluid Power Society.

Participants benefited from the thorough review of fluid power principles and the opportunity to refine their skills.

The aim of the courses is to

prepare participants to take the Fluid Power Society’s certification test to become either a Hydraulic Technician or Pneumatic Technician. The test is administered at the end of the week-long course.

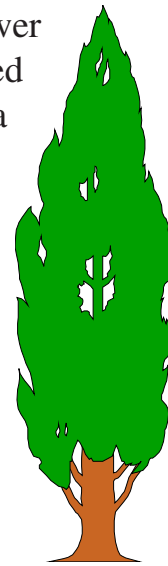
Those interested should have a thorough working knowledge of:

- Fundamental hydraulic or pneumatic principles
- Maintenance and troubleshooting principles
- Hydraulic or pneumatic terminology and symbols for elementary fluid power components
- Hydraulic or pneumatic circuit analysis.

Participants review the materials sent to their Local Technical Training Committee (LTTTC) prior to arriving for the course.

Since in-class preparation involves a hands-on review of advanced topics, reviewing the material beforehand greatly increases the chance of becoming certified.

Upon successful completion of the certification test, participants become certified for five years. They may become re-certified based upon their experience and education in the field.



### TTC ADMINISTRATION

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# Inside This Issue

of the  
**Technology Training Center**  
**NEWSLETTER**

**New TTC  
Building on Schedule**



**Spotlight on  
Advanced Fiber Optics**



**New  
Welding Course**



**Update on  
Certification Courses**



**Production Workers  
Brainstorm**



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**Visit the  
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