TECHNOLOGY & MAINTENANCE COUNCIL

TURNING EXPERIENCE INTO PRACTICE

September 3, 2019

Dear TMCSuperTech 2019 Contestant:

The Technology & Maintenance Council (TMC) is pleased to welcome you as a contestant for the trucking industry's 15th annual National Technician Skills Competitions —TMCSuperTech 2019. The event, which is being organized by TMC's Professional Technician Development Committee (PTDC), promises to be challenging, festive and informative. We're very glad to have you with us for this event.

Enclosed with this letter, please find a copy of the TMCSuperTech 2019 regulations, along with some background about the meeting itself. **Additionally, please find flyers from various companies that will help you prepare for the competition in advance.** Our event is being held at the Raleigh Convention Center in Raleigh, N.C., Sept. 15-19.

This year's event features a two-day heavy-duty competition, as well as a specialized track for trailer and light/medium vehicle technicians. Please plan to pick up your credentials at the TMC Registration Desk at the Raleigh Convention Center. on Saturday, Sept. 14 between 7 am - 5 pm. Pre-qualifiers for the heavy-duty track take place Sunday, Sept. 15 from 9 am to 4 pm. Breakfast and lunch will be provided on Sunday. There are no pre-qualifier rounds for the trailer or light/medium tracks The orientation and ASE written test will take place on Sunday, Sept. 15 as the first rotation on Day 1 for the heavy-duty track. The orientation for the trailer and light/medium tracks will take place on Sunday, Sept. 15 from 5-6 pm, and the written test on Monday, Sept. 16 as the first rotation at 7:30 am. Breakfast and lunch will be provided Monday as well.

A maximum of 96 heavy-duty track contestants will advance to the Hands-on Skills Challenge finals. Our heavy-duty finalists will be named Sunday evening at 7 pm during our TMCSuperTech 2019 Reception. The Hands-on Skills Challenge will be held on Monday, Sept. 16 from 8 am - 4 pm. (Trailer and light/medium tracks start at 7:30 am). Winners will be announced during our Awards Banquet Sept. 17, which will be held from 7:30-9:30 pm. This year's expanded 1.5-day PTDC Technician Training Fair will be held Tuesday, Sept. 17 and Wednesday, Sept. 18. The Fair features more hands-on training and is open to all registered attendees and contestants. Should you have any additional questions, please feel free to call me directly at (703) 838-1776. On behalf of TMC, good luck and see you in Raleigh!

Sincerely,

Robert Braswell
TMC Executive Director

Enclosures

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PTDC SUPERTECH2019
15th ANNIVERSARY

NATIONAL TECHNICIAN SKILLS COMPETITION

RULE BOOK & GUIDELINES

Technology & Maintenance Council
American Trucking Associations, Inc.

COUNCIL OF ATA

National Technician Skills Competitions

INTRODUCTION AND OVERVIEW

The Technology & Maintenance Council's National Technician Skills Competitions—TMCSuperTech—is an annual event held in conjunction with TMC's Fall Meeting. TMCSuperTech 2019—which will take place September 15-17 in Raleigh, N.C., — is organized by TMC's Professional Technician Development Committee (PTDC). This year's competition features a written test, series of qualifying rounds, a separate track for trailer and light/medium vehicle technicians, and the final heavy-duty track Hands-On Skills Challenge.

This year's Traditional Heavy-Duty Track is a two-day event. The Trailer and Light/Medium Competition Tracks will run concurrently with the second day of the traditional heavy-duty technician track, and are one-day events only.

NOTE: Technicians will not be able to compete in both the all-encompassing track and the specialized trailer and light/medium tracks. For 2019, the trailer track will be limited to no more than 42 technicians; light/medium track 32 technicians.

For the Heavy-Duty Track, the orientation and written test will take place as part of the first rotation of the qualifying rounds on Sunday, September 15. There will be a reception on Sunday evening following the qualifying rounds, at which we will announce the names of the contestant finalists who will become eligible to compete in Day Two's "Hands-on Skills Challenge" on Monday, Sept. 16 from 8 am to 4 pm.

For the Trailer and Light/Medium Tracks, the orientation will take place on Sunday, Sept. 16 from 5-6 pm and written test will take place as part of the first rotation on Monday, September 16. Both tracks are one-day events only, running from 7:30 am to 4 pm. There are no pre-qualfiers.

As in previous years, the PTDC will also conduct a Technician Training Fair in conjunction with the competition. For 2019, it is a 1.5-day long event, and sessions will be held on Tuesday, Sept. 17 and Wednesday, Sept. 18. This year's Fair features more hands-on training, a LEAN-training event and a new Tool Box Talk session. Training fair participants will receive certificates of attendance for all sessions attended.

The event will conclude with the TMCSuperTech 2019 Awards Banquet on Tuesday, Sept. 17 from 7:30-9:30 pm.

TMC's National Technician Skills Competition and Technician Training Fair are closed events. You must be a registered meeting or competition attendee to attend either event. The Competition is open to any actively employed commercial vehicle technician. However, contestants must be TMC Technician Members to compete.

Non-members will become members for the remainder of the year, once they've paid a $375 entry fee. The registration fee for members is $275. Verified grand champions of 2019 State Trucking Association technician skills competitions may enter the traditional competition track without fee. (This does not apply to the trailer and light/medium technician tracks.)

GENERAL RULES

DESCRIPTION

TMC's National Technician Skills Competitions—TMCSuperTech— is an annual event held in conjunction with the Council's Fall Meeting. For 2019, the Competitions are a multi-day event featuring our traditional heavy-duty technician track and specialized trailer and light/medium vehicle technician tracks. We start on Sunday with an orientation, written test, and series of pre-qualifer challenges to determine who in the Traditional Heavy-Duty track moves on to Monday's finals (the Hands-On Skills Challenge). All trailer and light/medium technicians will compete on Monday, up to a maximum of 42/32 contestants in each track (subject to change without notice prior to competition start). It is expected that all skills stations administered during TMCSuperTech will be based on TMC recommended practices, whenever applicable or appropriate.

WHO MAY COMPETE

The Competition is open to any actively employed commercial vehicle and/or trailer technician. However, all competitors must be TMC Technician Members. Active members shall be eligible to enter the competition for a $275 registration fee. Non-members will become members for the remainder of the year after having paid a $375

AGREEMENT AND RELEASE

In consideration of being permitted to participate in "TMC's National Technician Skills Competitionw—TMCSuperTech 2019" and be eligible for awards offered, participants hereby stipulate and agree to the following:

1. Contestant acknowledges that he or she is not in the employ of American Trucking Associations, Inc. (ATA).
2. Both as to himself or herself and his or her heirs and personal representatives, contestant releases TMC/ATA, its directors, employees, agents and/or any of its affiliates from any and all liability and any right of action that may arise from any damage or injury which may be received while attending or participating in said "TMC National Technician Skills Competitions—TMCSuperTech 2019."
3. Contestant grants TMC/ATA and its designated agencies exclusive rights to make use of information about himself or herself, along with photographs subsequently taken under TMC/ATA's direction, in publicity and advertising activities. Contestant further agrees to make himself or herself available for publicity enterprises arranged by TMC/ATA, with newspaper/magazine/ media writers and radio and television personnel.
4. Contestant will be bound by all orders, rules and regulations governing "TMC's National Technician Skills Competitions—TMCSuperTech 2019" while participating in said competition.

This agreement and release was part of the Technician Contestant Registration Form which all contestants used to register for the competition. Trailer and light/medium technician track contestants also agreed to the following provision:

5. I acknowledge that by participating in the TMCSuperTech 2019 Trailer/Light/Medium Technician Tracks, I am not eligible to compete in the traditional (includes power units) TMCSuperTech 2019 [heavy-duty] competition and am not in contention for the TMCSuperTech 2019 Grand Championship or any related runner-up awards.

entry fee. Verified champions of State Trucking Association technician skills competitions may enter without fee for the traditional competition track. [Become a member at *http://tmc.trucking.org* or by calling TMC offices at 703-838-1763.] Grand Champions of previous TMC National Technician Skills Competitions will be eligible to compete—provided they have not won consecutive national championships in the immediately previous two years. Starting in 2019, an individual who has won three national championships may not compete again in the traditional heavy-duty track; however, they may compete in other competition tracks. Persons falsely identifying themselves will be disqualified.

Contestants must be valid commercial vehicle technicians whose primary job responsibility is servicing, repairing and/or maintaining vehicles/equipment (at least 75 percent or more of their job function). Technicians with some supervisory responsibilities may compete as well as long as their primary role is serving as a commercial vehicle technician.

REGISTRATION

Online registration forms can be found at *http://tmcfall.trucking.org*. Competition egistrations must be received by August 16, 2019. Only preregistered contestants will be eligible to compete. Contestants will be sent a confirmation of their registration and housing accommodations in advance of the event.

CONTEST LOCATION

TMCSuperTech 2019 and the PTDC Technician Training Fair will be held at the Raleigh Convention Center. The address for the facility is 500 South Salisbury Street, Raleigh, NC 27601. The Marriott Raleigh City Center is TMC's host hotel. Registration and badge pickup will be located at the Raleigh Convention Center.

CONTEST FORMAT

Hands-on pre-qualifiers for the heavy-duty track take place Sunday, Sept. 15 from approximately 8 am to 4 pm. Breakfast and lunch will be provided on Sunday. There are no pre-qualifier rounds for the trailer or light/medium tracks The orientation and ASE written test will take place on Sunday, Sept. 15 as the first rotation on Day 1 for the heavy-duty track, and on Monday, Sept. 16 as the first rotation for the trailer and light/medium tracks. Breakfast and lunch will be provided on Monday as well.

A maximum of 96 contestants will advance to the heavy-duty track's Monday's Hands-on Skills Challenge (*subject to change without notice prior to competition start*). Our heavy-duty finalists will be named Sunday evening at 7 pm during our TMCSuperTech 2019 Reception. The Hands-on Skills Challenge for heavy-duty

finalists, trailer and light/medium contestants will be held on Monday, Sept. 16 from approximately 7:30 am - 4 pm. This year's PTDC Technician Training Fair will be held for 1.5 days on Tuesday, Sept. 17 and Wednesday, Sept. 18. The Fair is open to all registered attendees and contestants.

The event will conclude with the TMCSuperTech 2019 Awards Banquet on Tuesday, Sept. 17 from 7:30-9:30 pm.

PROPER ATTIRE

All contestants must wear work appropriate long pants and work shoes meeting accepted safety standards. Contestants may wear company-branded attire for Sunday's pre-qualifier rounds. Official contestant caps and T-shirts will be provided for Monday's contestants (all three tracks) *and must be worn*. **No other hat or shirt will be permitted.** Other safety-related items, such as protective eye wear, will be provided by TMC as needed at each skills station.

SAFETY

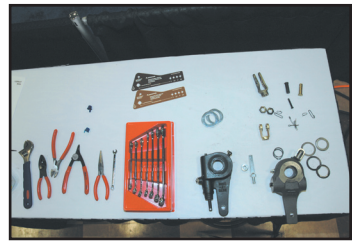
Safety glasses with side shields (provided by TMC) must be worn at all times during the Hands-on Skills Challenge, unless otherwise directed by a specific station chairman or judge. Standard shop safety procedures must be followed at all times. All spills must be cleaned up immediately. Any accident or injury must be reported to the section judge.

NOTE: Contestants may bring their own personal protective equipment for use during the competition.

CONTESTANTS WITH SPECIAL NEEDS

Every effort will be made to accommodate contestants with special needs. These needs must be identified on the contest registration form prior to competition.

TOOLS AND PARTS



All tools, manuals, and equipment will be provided by Competition organizers. Contestants may bring their own personal multimeter and flashlight for use during the competition if they so choose (no other personal tools permitted or needed).

SCORING

The Traditional Heavy-Duty Track is designed to measure thorough knowledge of heavy-duty commercial vehicles, including both theory and practical application. The specialized Trailer Technician Track will focus specifically on trailer-related diagnostic, maintenance and repair skills. The new Light/Medium track focuses on similar skills as they apply to Class 2-6 vehicles.

All tracks will include a written test covering the various competition areas. The test will be prepared and administered by the National Institute for Automotive Service Excellence (ASE). This year, the Written Test will take place in the competition floor in Exhibit Halls A-C as part of the first rotation of each track; heavy-duty on Sunday, all other tracks on Monday.

For the traditional heavy-duty track, scores from the written test and Sunday's skill stations will be added together to decide who goes on to the Monday finals. For the trailer and light/medium tracks, the written test is not a pre-qualifier; however, scores will count toward the contestant's overall score.

The ASE-administered Written Test will count 300 points; everything else counts for 100 points per station. For traditional track contestants, it will be possible to win a Sunday skill station and not advance to the Monday competition. *Winners of the Sunday skill stations will be recognized during the Sunday evening reception*.

For the Traditional Commercial Vehicle Track, a maximum of 96 contestants will advance to Monday's Hands-on Skills Challenge, consisting of verified State Trucking Association Grand Champions (who qualify for an automatic bye into the Hands-on Skills Challenge) plus those who scored highest in the qualifying rounds. The Written Test score will also count as one of the stations for the final competition score.

Tiebreakers in individual workstation and/or final scores are predetermined by the TMCSuperTech competition committee prior to the competition and reviewed annually based on any changes in workstations. Each station will be won by the highest score in specific workstation, with appropriate tiebreakers used as needed.

Scoring at all stations shall be done by workstation judges using a detailed station score sheet developed by the station technical committee. Judging scores will reflect an assessment of technical skills and knowledge, accuracy, and quality of workmanship. All decisions by the station judge chairman will be final. Scoring for each of Monday's skill stations will be based on 100 points (except for the ASE written test which will be worth 300 points) and each contestants' final score will be the total of all stations including the Sunday qualifiers for the heavy-duty track.

TEAM COMPETITION

TMC will conduct a team competition for those companies wishing to participate. Teams are limited to one per company, and consist of exactly two individual competitors. An authorized representative from each company must inform TMC before the competition starts if it wishes to compete in the Team Competition and if so, who its two designees will be for its team. Team scoring will be based on the individual competitors' performance.

STUDENT COMPETITION

TMC will conduct a student competition for post-secondary technician students during TMCSuperTech 2019. The contest – TMCFutureTech 2019 sponsored by Tech Force Foundation — will be held on Monday, Sept. 16 from approximately 7:30 am to 4 pm in the Raleigh Convention Center. Details on the competition appear in the *Student Competition Rule Book and Guidelines*.

PRIZES

All contestants will receive an official Competition cap and a gift bag provided by Competition sponsors. (Note: Prizes are subject to change without notice.)

Grand Champion

The First Place Grand Champion will receive a trip to the 2020 Daytona 500, along with other valuable prizes. A trophy, engraved with the Grand Champion's name, will be provided to the winner. Also provided are: $1,000 gift card from TMC; a top-of-the-line tool box is also provided courtesy of Snap-On Tools; a Reliance Dream Shop with $5,000 Dream Shop credit from Reliance Supply; and a JPRO Professional Diagnostic Toolbox w/ Panasonic Toughbook and DLA 2.0 adapter plus one year of access to JPRO Professional, courtesy of Noregon.

Second Place

The Second Place winner will receive a trophy, $1,000 gift card from TMC; a trip to the May 2020 Talledega 500 (four tickets, including three nights hotel plus a $500 gift card for travel expenses), courtesy of Fontaine Fifth Wheel/Fontaine Renew, and a DLA 2.0 adapter plus one year of access to JPRO Professional. courtesy of Noregon.

Third Place

The Third Place winner will receive a trophy, $1,000 gift card from TMC; and a DLA 2.0 adapter plus one year of access to JPRO Professional. courtesy of Noregon.

Skills Challenge Station Winners

Individuals with the highest scores at each individual Hands-on Skills Challenge station will also receive certificates of recognition.

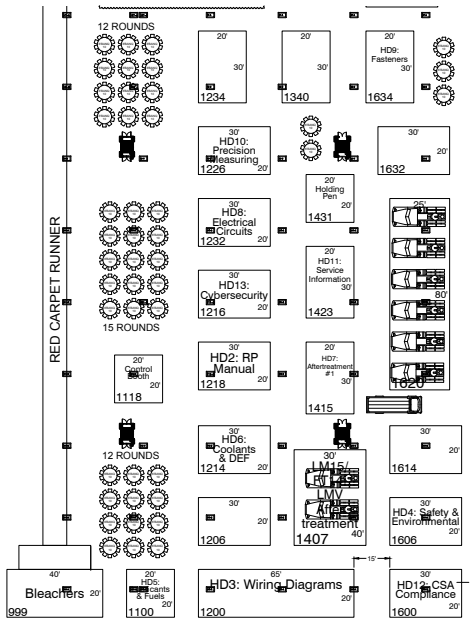
Trailer and Light/Medium Track Winners

Prizes and/or special recognition will be given for 1st, 2nd and 3rd place winners for our trailer and light/medium tracks.

What to Expect on the Competition Floor

In this section, you'll find a floor plan layout and several photos that will give you an idea what to expect the Competition Floor to look like upon your arrival. Things move fast on the competition floor and there is a lot of activity going on simultaneously.

SUNDAY STATIONS



Sunday and Monday stations will be held in Exhibit Hall A-C of the Raleigh Convention Center.
NOTE: Final floorplan subject to change without notice.

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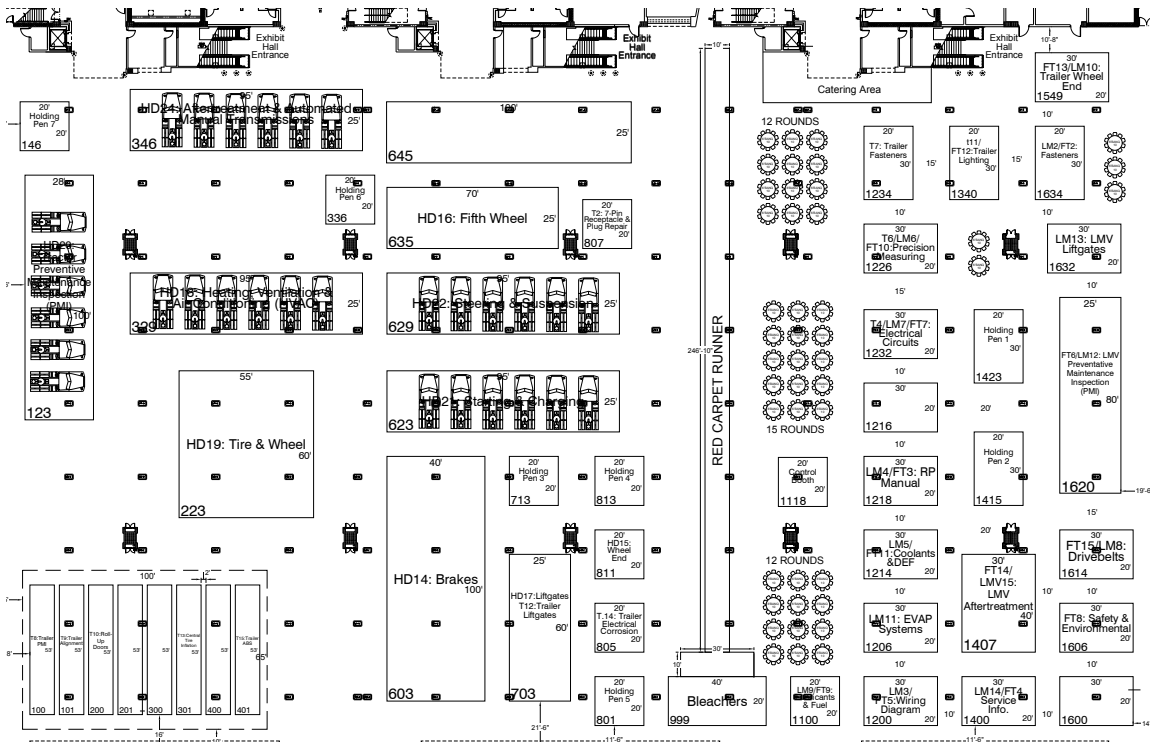
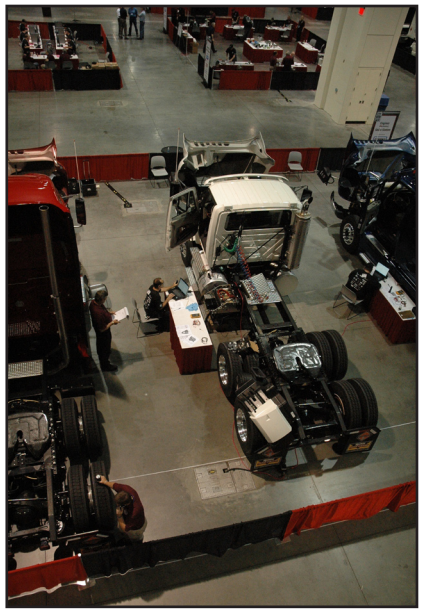
MONDAY STATIONS



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JUDGING GUIDELINES

Judges will consist of recognized experts within each contest area. Each Skill Station Evaluation Sheet and task will be prepared by individual station chairman and that Station's committee. Point assessment for each task will be specifically listed as part of the contest evaluation sheet to easily gauge contestant ability. Those points will be totaled by the individual contest chair or assigned individual to achieve possible maximum points for that contest. Contestant questions regarding individual issues will be brought immediately to attention of the contest chair. Should personal/professional recognition of contestant be known by the judge, that judge is to be recused and replaced with another judge for that contestant evaluation procedure. Judge can resume normal responsibilities after that contestant has finished specific evaluation.

SKILL STATION GUIDELINES

TRADITIONAL HEAVY-DUTY TECHNICIAN TRACK

Competition Skill Stations will consist of the following skill areas:

SUNDAY: Qualifying Rounds—

There will be a total of 13 skill stations in **Sunday's Qualifying Round**. Each station, featuring table-top equipment mock-ups, will be divided into 10 substations. Each station rotation will last 23 minutes. The 13 stations will be:

HD1: Written Test (two rotations)
HD2: RP Manual
HD3: Wiring Diagrams
HD4: Safety & Environmental
HD5: Lubricants & Fuels
HD6: Coolants & DEF
HD7: Aftertreatment #1
HD8: Electrical Circuits
HD9: Fasteners
HD10: Precision Measuring
HD11: Service Information
HD12: CSA Compliance
HD13: Cybersecurity

MONDAY: Hands-on Skill Challenge (Finals)—

There will be a total of 13 skill stations in **Monday's Hands-on Skill Challenge**. Each station will be divided into 7 substations. Each station will last 23 minutes including an opening two-minute instruction period. The 13 stations will be:

HD14: Brakes
HD15: Wheel End
HD16: Fifth Wheel
HD17: Liftgates
HD18: Heating, Ventilation & Air Conditioning (HVAC)
HD19: Tire & Wheel
HD20: Tractor Preventive Maintenance Inspection (PMI)
HD21: Starting & Charging
HD22: Steering & Suspension
HD23: *Not Used This Year*
HD24: Aftertreatment & Automated Mechanical Transmissions (two rotations)

Twenty-three minutes will be allotted to each cycle. Orientation, instructions and task completion will occur within this time allotment. At end of 23 minutes, with appropriate signal, contestants will be escorted to next contest within rotation.

TRAILER TECHNICIAN TRACK

The Trailer Technician Track will consist of the following skill areas:

- T1: Written Test (two rotations)
- T2: 7-Pin Receptacle and Plug Repair
- T3: Hydraulics
- T4: Electrical Circuits
- T5. Trailer Wheel End
- T6: Precision Measuring
- T7: Trailer Fasteners
- T8: Trailer Preventive Maintenance Inspection (PMI)
- T9: Trailer Alignment
- T10: Roll-up Doors
- T11: Trailer Lighting
- T12: Liftgates
- T13: Central Tire Inflation
- T14: Trailer Electrical Corrosion
- T15: Trailer Antilock Braking System (ABS)
- T16. *Not Used This Year*

Twenty-three minutes will be allotted to each cycle. Orientation, instructions and task completion will occur within this time allotment. At end of 23 minutes, with appropriate signal, contestants will be escorted to next contest within rotation.

LIGHT/MEDIUM TECHNICIAN TRACK

The Light/Medium Technician Track will consist of the following skill areas:

- LM1: Written Test (Two Rotations)
- LM2: Fasteners
- LM3: Wiring Diagrams
- LM4: RP Manuals
- LM5: Coolants & DEF
- LM6: Precision Measuring
- LM7: Electrical Circuits
- LM8: Drivebelts
- LM9: Lubricants & Fuels
- LM10: Wheel End
- LM11: EVAP Systems
- LM12: LMV Preventive Maintenance Inspection (PMI)
- LM13: LMV Liftgates
- LM14. Service Information
- LM15. LMV Aftertreatment

Twenty-three minutes will be allotted to each cycle. Orientation, instructions and task completion will occur within this time allotment. At end of 23 minutes, with appropriate signal, contestants will be escorted to next contest within rotation.

RULES FOR ALL CONTESTANTS ON COMMUNICATION DURING THE CONTEST

Communication between contestants and spectators during the competition is prohibited (this includes individuals from a contestant's own company). Spectators are to be in the viewing area outside of the skill station. Authorized individuals may enter individual skill stations for means of documenting or administration of contest activity. Possession and use of cell phones, portable data assistants (PDAs) or other camera/communication devices by contestants in the contest area is prohibited during the competition. Once all contestants have completed the skill station challenge, contestants will be held at said skill station until it is determined all scores have been received and properly recorded.

Violators will be given one warning from the station chairman or station judge if this infraction is observed. If the violation occurs a second time during the same station, the contestant will be disqualified from the station and receive a "zero" score for that station. If the infraction is observed at more than one station during the competition, the contestant will be disqualified from the entire competition.

What to Expect at Each Skill Station

SUNDAY: Qualifying Rounds (Traditional Heavy-Duty Technician Track)

HD1. **Written Test** — This is a 100-question written test covering the various competition areas, prepared and administered by the National Institute for Automotive Service Excellence (ASE). This station will take two rotations.

HD2. **RP Manual** — This challenge will consist of answering written questions based on sections of TMC's *Recommended Practices Manual* and stating which RP provided you the answer.

HD3. **Wiring Diagrams** — Technicians should be able to look up wiring schematics and pinpointing specific information based on a series of scenarios. Using computers, technicians will use the MOTOR FleetCross Truck Service on-line program to look up and answer 20 wiring diagram related questions in the time allotted.

HD4. **Safety & Environmental** — This station will test technician knowledge of the general guidelines and practices for dealing with hazardous materials, as well as safety protocols/regulations in a shop environment.

HD5. **Lubricants and Fuels** — This station will test knowledge of lubricants and fuels along with diagnostic-related issues.

HD6. **Coolants & Diesel Exhaust Fluid**— This station will assess a technician's knowledge of current coolant technologies as well as diesel exhaust fluid (DEF) and DEF delivery systems.

HD7. **Aftertreatment #1**—This station will challenge technicians' knowledge of emissions aftertreatment systems. The station starts with assessing component identification knowledge of the aftertreatment system. This activity prepares participants for the analytical thinking segment of this station and challenges them to use several resources that would be normally used during emission diagnostics.

HD8. **Electrical Circuits** — Technicians will be asked to identify and check resistors, test and record the voltage values, measure voltage drops, and determine current loads on a test board. Technicians may use their own multimeter or a Fluke 88 that will be provided.

HD9. **Fasteners** — Contestants will be asked a series of questions on rivets, threaded fasteners, and fittings. Participants will be given an assortment drawer with various components along with questions to be answered on a multiple choice answer sheet. Participants will have to use the gauges and materials given to answer the 35 questions on the test. Not all of the answers are given in the material provided.

HD10. **Precision Measuring** — This station will ask the contestant to accurately measure various components and document the dimensions. There will also be exercises on reading micrometers and calculating clearances. Both standard english and metric micrometers will be used.

HD11. **Service Information** — Demonstrate ability to retrieve service information from current accepted industry sources. Contestants will be tested on their ability to use online repair information to diagnose and fix maintenance problems they are likely to encounter in their jobs. Using supplied computers, Technicians will use the Mitchell1 Truck Series Live on-line program to look up and answer 20 questions in the time allotted. The categories include Repair, Trouble Code, and Labor Guide Questions.

HD12. **CSA Compliance** — Technicians will be tested on their knowledge of Commercial Vehicle Safety Alliance (CVSA) Out-of-Service and Federal Motor Carrier Safety Regulations (Appendix G) criteria. In addition, given a roadside inspection form, each technician will be tested on their knowledge FMCSR regulations and CVSA Out-Of-Service requirements. This exam will be taken on a Toughbook laptop.

HD13. **Cybersecurity** —This station will challenge technicians in practical approaches to identify and remedy vehicle cyber security faults.

MONDAY: Hands-On Skills Challenge (Traditional Heavy-Duty Track)

The following is a guideline of what to expect at each station during the traditional Hands-on Skills Challenge for tractor-trailer/truck technicians. Each challenge is designed to test a technician's general knowledge in each functional area, without the need for expert familiarity with any particular tool, vehicle system or vehicle.

HD14. **Brakes** — Troubleshoot, service, and repair of air brake systems and wheel end braking systems. The Brake Station will challenge the competitor on proper inspection, measurement, and diagnosis of the tractor and trailer foundation brake components. Contestants must advise and document any issues related to preventive maintenance or any out-of-service condition. (This will take two rotations.)

HD15. **Wheel End** — Troubleshoot, service and repair wheel ends. Contestants will answer questions and complete tasks relating to the identification, inspection, installation, and repair of wheel end components found on Class 8 trucks and trailers. Contestants must be able to use torque wrenches, dial indicators, and other common hand tools used in the installation and repair of wheel end components.

HD16. **Fifth Wheel** — Demonstrate ability to conduct a hands-on diagnostic and preventive maintenance inspection specifically for the fifth wheel. This station will feature test questions related to all coupling devices and standard industry fifth wheels. Contestants should come prepared to address hands-on inspection and diagnostic procedures, as well as written questions related to the mechanical functions, safety, provided by each tractor OEM and fifth wheel manufacturer.

HD17. **Liftgates** — Contestants will be expected to troubleshoot and repair liftgate system issues found in everyday fleet maintenance operations. Contestants will be required to complete number of hands on tasks associated with the troubleshooting of operational issues commonly found on Maxon liftgates.

HD18. **Heating, Ventilation and Air Conditioning (HVAC)** — Troubleshoot, service and repair heating, ventilation and air conditioning systems. Technicians should be able to understand and explain the flow of refrigerant through the HVAC system. They should be able to demonstrate proper diagnostic and troubleshooting procedures of both the refrigerant circuit and the electrical circuits involved in the HVAC system. They should also be familiar with all federal regulations outlining proper and legal aspects of HVAC repair. Technicians should be able to demonstrate proper use of leak detection and identification equipment along with demonstrating proper electrical diagnostic procedures using a digital multimeter.

HD19. **Tire and Wheel** — Troubleshoot, service and repair of tire/wheel systems. Contestants will be expected to diagnose tire, wheel, fastener and inflation system issues found in everyday fleet maintenance operations. They will also be asked to perform specific tasks encountered during those maintenance operations. Competitors will be asked questions in written format pertaining to the same or additional maintenance practices. All information needed to prepare for these tasks to be performed or questions to be answered can be found in published service literature or TMC's Recommended Practices.

HD20. **Tractor Preventive Maintenance Inspection (PMI)** — Demonstrate ability to perform preventive maintenance inspection procedures. Contestants will take a written and practical test on their knowledge of Federal Motor Vehicle Safety Standards and Regulations where it pertains to the Preventive Maintenance Inspections on a Class 8 tractor subject to Part 396.3 of the FMCSA requirements.

HD21. **Starting & Charging** — The starting and charging station will test contestants' knowledge and ability with general troubleshooting of starter and alternator circuits and components as well as their knowledge of TMC RP 129A, RP 132B, RP 164, RP 139B. Test equipment provided will be a Auto Meter BCT200J and a Multimeter.

HD22. **Steering & Suspension** — Service and repair of steering and suspension systems. This station will focus on common steering and suspension maintenance items such as alignment, worn components, and inspection practices. Using the provided manufacturer's service manual and/or TMC RPs, the contestants will be tasked with diagnosis and repair of common issues, including the interpretation of vehicle driveability concerns and issues based on customer reported conditions.

HD23. **NOT USED THIS YEAR.**

HD24. **Aftertreatment and Automated Mechanical Transmissions** —Contestants must demonstrate the ability to correctly read, interpret, and diagnose fault code(s) and/or symptoms associated with the Aftertreatment and Automated Mechanical Transmission systems utilizing supplied diagnostic scan tools and technical literature. The overall experience should be to give the technician confidence and capability to troubleshoot these products in his or her shop environment in the future. (This will take two rotations.)

MONDAY: Trailer Technician Track (One-Day Only)

NOTE: Stations numbered with a "T" followed by a number have a test/challenge that is unique to the trailer technician track. These stations are not the same as similarly named stations in the traditional track, and therefore, will feature separate trailer technician winners for each station so designated.

T1. **Written Test** — This is a 100-question written test covering the various competition areas, prepared and administered by the National Institute for Automotive Service Excellence (ASE). This station will take two rotations.

T2. **Seven-Pin Receptacle and Plug Repair** — Diagnose, service, and repair trailer seven-pin receptacle and plug issues and failures. The technician will be given a general layout of a trailer harness system and asked to color code the schematic according to the industry standard wire configuration of the SAE J560 connector. Additionally, the technician will be asked to identify individual functions of each wire in the system, both at the J560 and the load device.

T3. **Hydraulics** — Diagnose, service, and repair hydraulic system issues and failures. This station will test a technician's general system knowledge along with knowledge of problem areas/ failure modes associated with hydraulic systems. They will identify failure modes and corrective actions of common failures. All equipment necessary for the completion of all objectives will be located at each work station.

T4. **Electrical Circuits** — Technicians will be asked to identify and check resistors, test and record the voltage values, measure voltage drops, and determine current loads on a test board. Technicians may use their own multimeter or a Fluke 88 that will be provided.

T5. **Trailer Wheel End** — Troubleshoot, service and repair wheel ends. Contestants will answer questions and complete tasks relating to the identification, inspection, installation, and repair of wheel end components found on semi- trailers. Contestants must be able to use torque wrenches, dial indicators, and other common hand tools used in the installation and repair of wheel end components.

T6. **Precision Measuring** — This station will ask the contestant to accurately measure various components and document the dimensions. There will also be exercises on reading micrometers and calculating clearances. Both standard english and metric micrometers will be used.

T7. **Trailer Fasteners** — Diagnose, service, and repair trailer fastener issues. Contestants will be asked a series of questions on rivets, threaded fasteners, and fittings. Participants will be given an assortment drawer with various components along with questions to be answered on a multiple choice answer sheet. Participants will have to use the gauges and materials supplied to answer the 33 questions on the test. Not all of the answers are given in the material provided.

T8. **Trailer Preventive Maintenance Inspection (PMI)** — Demonstrate ability to perform trailer PMIprocedures. Contestants will be tested on their knowledge of Trailer PMI and identify related follow up repair items. Contestants will utilize some or all of the resources available to determine inspection and repair needs.

T9. **Trailer Alignment** — This station will consist of written questions based on TMC RPs for trailer alignment and contestants will be asked to demonstrate the proper use of alignment tools and perform a trailer alignment. Contestants should be prepared to inspect the suspension for damage or worn components. They must be able to explain corrective measures needed.

T10. **Trailer Roll-up Doors**—The station will focus on the fundamentals of inspection and preventive maintenance techniques used to service and troubleshoot roll-up door systems.

T11. **Trailer Lighting**—This station will challenge technicians' knowledge of trailer lighting and electrical systems. You will check all safety lighting for proper operation and FMVSS 108 compliance; diagnose any safety lighting problems and indicate whether the problem is lighting or wiring related; verbally explain each task you are performing.

T12. **Liftgates** — Contestants will be expected to troubleshoot and repair liftgate system issues found in everyday fleet maintenance operations. Contestants will be required to complete number of hands on tasks associated with the troubleshooting of operational issues commonly found on Maxon liftgates.

T13. **Central Tire Inflation —** Diagnose, service, and repair central tire inflation system issues and failures. This station will be testing the technicians overall knowledge of this technology. The test will provide multiple situations to overcome. The goal is to challenge the technicians working knowledge and diagnostic skills for successful results.

T14. **Trailer Electrical Corrosion —** Diagnose, service, and repair trailer electrical system corrosion. This station will test your ability to detect possible corrosion in a wire/cable and then complete a proper repair using the tools and items provided.

T15. **Trailer Antilock Braking System (ABS) —** Troubleshoot, service and repair trailer ABS. This station will consist of a complete inspection of a trailer ABS system. It will include inspecting, troubleshooting, and repairing ABS faults. It will assess the technician's diagnostic and repair skills of trailer ABS.

T16. **NOT USED THIS YEAR.**

MONDAY: Light/Medium Technician Track (One-Day Only)

NOTE: Stations numbered with a "LM" followed by a number have a test/challenge that is unique to the light/medium technician track. These stations are not the same as similarly named stations in the heavy-duty or trailer tracks, and therefore, will feature separate technician winners for each station so designated.

LM1. **Written Test** — This is a 100-question written test covering the various competition areas, prepared and administered by the National Institute for Automotive Service Excellence (ASE). This station will take two rotations.

LM2. **Fasteners** — Each technician will be given a tray with assorted fasteners, rivets, and fittings. The contestants will be provided questions on the fastener, fittings, or rivets. Reference materials with information to help technicians answer some of the multiple choice questions. Tools will be provided to help technicians measure and identify the fasteners, fittings, and rivets within the tray and transfer the correct answer onto a separate answer sheet.

LM3. **Wiring Diagrams** — Technicians should be able to look up wiring schematics and pinpointing specific information based on a series of scenarios. Using computers, technicians will use the MOTOR FleetCross Truck Service on-line program to look up and answer 20 wiring diagram related questions in the time allotted.

LM4. **RP Manual** — This challenge will consist of answering written questions based on sections of TMC's *Recommended Practices Manual* and stating which RP provided you the answer.

LM5. **Coolants & Diesel Exhaust Fluid**— This station will assess a technician's knowledge of current coolant technologies as well as diesel exhaust fluid (DEF) and DEF delivery systems.

LM6. **Precision Measuring** — This station will ask the contestant to accurately measure various components and document the dimensions. There will also be exercises on reading micrometers and calculating clearances. Both standard english and metric micrometers will be used.

LM7. **Electrical Circuits** — Technicians will be asked to identify and check resistors, test and record the voltage values, measure voltage drops, and determine current loads on a test board. Technicians may use their own multimeter or a Fluke 88 that will be provided.

LM8. **Drivebelts —** Diagnose, service, and repair drivebelt system issues and failures. This station will test a technician's general system knowledge along with knowledge of problem areas/ failure modes associated with drivebelt systems. Technicians must complete a combination system inspection / test covering their knowledge of RP 320C, *Inspection of Maintenance and Tension of Accessory Belt Drive Systems*. They will identify failure modes and corrective actions of seven most commonly seen belt failures. All equipment necessary for the completion of all objectives will be located at each work station.

LM9. **Lubricants and Fuels** — This station will test knowledge of lubricants and fuels along with diagnostic-related issues.

LM10. **Trailer Wheel End —** Troubleshoot, service and repair wheel ends. Contestants will answer questions and complete tasks relating to the identification, inspection, installation, and repair of wheel end components found on semi- trailers. Contestants must be able to use torque wrenches, dial indicators, and other common hand tools used in the installation and repair of wheel end components.

LM11. **EVAP Systems** — This station will test technician's knowledge on evaporative emission systems found on gasoline engines with an emphasis on basic skills, such as proper tool use, and proven industry standards that successful technicians use.

LM12. **LMV Preventive Maintenance Inspection (PMI)** — Demonstrate ability to perform preventive maintenance inspection procedures. Contestants will take a written and practical test on their knowledge of Federal Motor Vehicle Safety Standards and Regulations where it pertains to the Preventive Maintenance Inspections on a Class 8 tractor subject to Part 396.3 of the FMCSA requirements.

LM13. **LMV Liftgates**—Contestants will be expected to liftgate system issues found in everyday fleet maintenance operations. Contestants will be required to complete number of hands on tasks associated with the troubleshooting of operational issues commonly found on Leyman liftgates. Contestants will need to show their fault tracing ability as well as be able to use common hand tools, wiring diagrams and manuals used in the troubleshooting and repair of these common operational issues. Also understand key components and how they operate.

LM14. **Service Information —** Demonstrate ability to retrieve service information from current accepted industry sources. Contestants will be tested on their ability to use online repair information to diagnose and fix maintenance problems they are likely to encounter in their jobs. Using supplied computers, Technicians will use the Mitchell1 Truck Series Live on-line program to look up and answer 20 questions in the time allotted. The categories include Repair, Trouble Code, and Labor Guide Questions.

LM15. **Aftertreatment**—This station will challenge technicians' knowledge of emissions aftertreatment systems. The station starts with assessing component identification

knowledge of the aftertreatment system. This activity prepares participants for the analytical thinking segment of this station and challenges them to use several resources that would be normally used during emission diagnostics.

AFTER THE CONTEST IS OVER. . .

There will be a debriefing session immediately following the Monday competition rounds. Additionally, all contestants are invited to attend any of our special training sessions Tuesday morning as part of TMC's Technician Training Fair. See the onsite meeting program for more information.

AWARDS BANQUET

Our awards banquet for TMCSuperTech 2019 will be held on Tuesday., Sept. 17 from 7:30 to 9:30 pm. Presentations will be made to each track's first, second and third place winners as well as to those who placed first within each individual skills station. All contestants are invited to attend!

RECRUITING:

Companies are not permitted to recruit professional technicians during TMCSuperTech 2019, as per guidelines recommended to TMC by its Professional Technician Development Committee (PTDC). Violations of this guideline will be addressed expeditiously by TMC.

FOR MORE INFORMATION

For more information, or to get answers to a question that still has not been answered for you, please feel free to visit our website at *http://tmc.trucking.org* or call TMC offices at (703) 838-1763.

POLICY CLARIFICATIONS FOR 2019

POLICY ON WORKSTATION FORMS, TEST AND SCORE SHEETS

Workstation chairs must submit their tests, answer keys and supporting documentation to TMC's Executive Director Robert Braswell rbraswel@trucking.org and the Contest Chairman Randy Patterson PattersonRandall@bfusa.com by no later than August 17 for review, processing and production. Station chairs may not produce their own materials and bring them onsite without prior review of the materials.

POLICY CLARIFICATION ON ONSITE TRAINING

A request has been made of TMC by several groups for permission to hold vendor-conducted technician training onsite in Orlando immediately prior to our TMCSuperTech event for the benefit of their technicians who are competing. While TMC has approved internal "boot camp" training in the past, those events have always to our knowledge been conducted internally by the fleet/service dealer for its own use. It is the PTDC's position that having vendors conducting training for a select fleet or service provider onsite during the window of the TMC event/competition (including setup days) has the potential of compromising the competition and may lead to accusations of favoritism by either the vendors involved or TMC. Therefore, the PTDC will not permit the practice to occur.

EXCEPTIONS: If the training is to be made available to all competitors, that is fine. If the training conducted by the fleet/service dealer's own personnel for their own benefit, that is also fine.

POLICY ON SKILLS STATION ACCESS DURING THE COMPETITION

Only authorized individuals may enter the skills station area. Authorized individuals include the station chairman, station officers and volunteers, judges, TMC staff, competition officials, and PTDC officers.

POLICY ON COMMUNICATION BETWEEN CONTESTANTS AND SPECTATORS DURING THE COMPETITION

Violators will be given one warning from the station chairman or station judge if this infraction is observed. If the violation occurs a second time during the same station, the contestant will be disqualified from the station and receive a "zero" score for that station. If the infraction is observed at more than one station during the competition, the contestant will be disqualified from the entire competition.

POLICY ON CONTESTANT QUALIFICATIONS TO COMPETE

Contestants must be valid commercial vehicle technicians whose primary job responsibility is servicing, repairing and/or maintaining vehicles/equipment (at least 75 percent or more of their job function). Technicians with some supervisory responsibilities may compete as well as long as their primary role is serving as a commercial vehicle technician.

Grand Champions of previous TMC National Technician Skills Competitions will be eligible to compete—provided they have not won consecutive national championships in the immediately previous two years. Starting in 2019, an individual who has won three national championships may not compete again in the traditional heavy-duty track; however, they may compete in other competition tracks. Persons falsely identifying themselves will be disqualified.

NOTES

HISTORY OF THE NATIONAL TECHNICIAN SKILLS COMPETITION

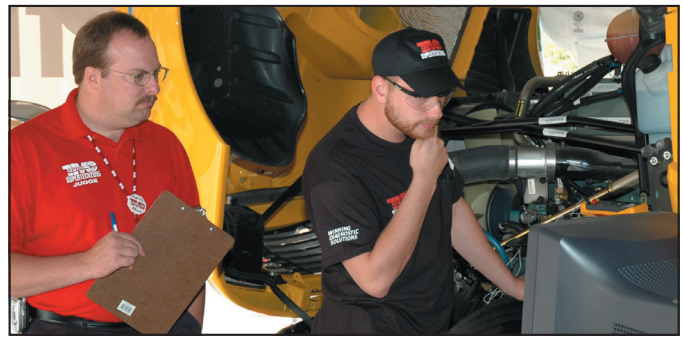
(Reprinted From Our 10th Anniversary Rule Book)

TMC's Professional Technician Development Committee (PTDC) began more than 10 years ago with an abstract idea to elevate and honor the industry's truck technicians. The passing of the 10th anniversary of the National Technician Skills Competition is a good mile post to reflect on the success born of dedication and hard work, generosity of sponsors, selflessness of the PTDC team, volunteers and their companies. And, even more so, at a time when an uncooperative economy often underscores the values of industry leaders dedicated to the success of technicians.

TMC developed the national TMCSuperTech competition as a way to recognize truck technicians and promote the career opportunities for heavy-truck technicians. The competition showcases the skill and knowledge of trucking industry technicians and increases the visibility of available career opportunities.

"Given the pace of technological change, being a heavy-truck technician is truly one of the most challenging and skilled jobs in our economy," said Carl Kirk, TMC executive director. "The knowledge base that these folks have to master is truly amazing. It's entirely appropriate that TMC honors the best-of-the best of our industry."

The genesis of trucking's National Technician Skills Competition traces back to local efforts in Arkansas aimed at recognizing technician excellence. "The origin of TMC's



national program, I feel, goes back to Jim Robertson who worked at McKee Foods. It was his idea to have a technician competition in Arkansas in early 2000 and we rolled out our state competition in 2002. During my tenure as TMC General Chairman, we took his idea to the national level and with a great deal of assistance from many people, developed what we know now as PTDC and TMCSuperTech," said Mike Jeffress, vice president of maintenance, Maverick Transportation, LLC.

By 2002, several people within TMC had begun expressing a desire to form a group to raise the profile and professionalism of truck technicians on a national level. TMC held its first Technician Training Fair in partnership with the former SAE affiliate Service Technicians Society (STS) at TMC's 2003 Fall Meeting. At the time, STS had a small truck group within a mostly automotive focused organization. By 2004, STS begun the process of being phased out within SAE, and so TMC set upon the task of building upon that first preliminary training fair and launching a national technician competition.

TMC members from various study groups and committees began informal discussions on how to accomplish this goal and by March 2004, a group of individuals successfully petitioned TMC's board of directors to create what would become the PTDC at TMC's 2004 Annual Meeting in Ft. Lauderdale, Fla.

The core group of individuals who spearheaded the effort initially at TMC were

Mike Jeffress, Brian Strach from Hendrickson, Bill Nash of ArvinMeritor, Guy Warpness of WyoTech, Steph Sabo of Norrenberns Truck Service, Jack Sukala of J. Jeb. Mfg., Dave Dettman, of St. Louis Community College, Chuck Roberts with ASE, Mark O'Connell from Fleet Maintenance magazine, and Robert Braswell, TMC's Technical Director. Mike Walters, with Marten Transport, was the first PTDC Chairman.

By the summer of 2004, the new PTDC was busy exploring the best way to launch a national truck technician competition from scratch. So it turned outside of trucking to the automotive sector and a man with experience coordinating automotive technician competitions — George Arrants, who at that time was employed by SnapOn Tools. "I guess there was a TMC PTDC meeting, and they were talking about the competition, and they had asked if they knew anybody who would be a good candidate to run the competition," recounted Arrants in a February 2006 edition of Fleet Maintenance. "And Guy Warpness with WyoTech — we've known each other for a long time — he and Chuck Roberts of ASE looked at each other and my name popped out. Guy called me and asked me if I would do it, and I said sure."

Arrants had already worked on auto technician competitions with SkillsUSA/VICA, the Greater New York Auto Dealers Association competition, as well as a statewide competition in Texas and others. "I'd been involved in multiple competitions, mainly on the automotive side, so this was no problem. As long as I had the people who were willing to work, and to put in the time, yeah. So I volunteered," said Arrants who has served as TMCSuperTech contest chairman since its inception.

For the first year, the PTDC leadership agreed to a basic competition format. Workstation chairmen would decide the challenges to be tested. Work stations will have a 30-minute limit, with a maximum of 50 competitors; the competition taking eight hours. A pretest/ prescreening process would limit entrants to the top 50.

A rules committee was appointed and included: Bonne Karim, United States Postal Service; Roger Maye, George Arrants, and Jack Sukala. The original work stations chairs were:

- Electrical — Bruce Purkey, Purkey's Fleet Electrics
- Brakes/ABS — Mac Whittemore, ArvinMeritor / John Hawker, Dana
- HVAC — Dave Dettman, STCC
- Steering/Suspension/Tires — John Knutson, Hendrickson
- PMI — Jimmy Mathis, Fedex Express
- Written Test — Kurt Hornicek, ASE

- Engines — Mike Stewart, Lincoln Tech
- Drivetrain — Rick Muth, Eaton, and;
- Service Information — Dave Constantino

Naming the competition would fall to TMC staff, and the official name chosen — the National Technician Skills Competition –mirrored that of ATA's long-established National Truck Driving Championships. However, a "nickname" for the event soon stuck, suggested by TMC's Robert Braswell. "We were looking for a shorter, catchy name that would stick in people's minds. We thought, this is going to be the Super Bowl for technicians so why not 'TMCSuperTech'?" said Braswell.

The competition, held in conjunction with TMC's 2005 Fall Meeting, Sept. 18-22, in Valley Forge, Pa., drew 67 contestants, many of whom were corporate, state and regional technician skills winners. Contestants with the top 50 scores from a written test were tested the following day at skill stations that included: Electronic Troubleshooting, Brakes, HVAC, Engine, Steering/Suspension, Preventive Maintenance Inspection, Drivetrain, and Service Information.

Steve Talmadge, a technician with Premier Truck Centers, Birmingham, Alabama, earned the top overall score from eight skill stations to become Grand Champion of TMCSuperTech 2005. Ryder System technicians Matt Van Zanten, Choctaw, Okla., and Mike Bogard, Neenah, Wis., earned second and third place in the contest. Mr. Van Zanten earned the top score at the Electronic Troubleshooting skill station. Mr. Bogard earned first place at the Steering skill work station as well having the highest score on the written test with 95 out of 100. Work stations winners included:

- Electronic Troubleshooting, Matt Van Zanten, Ryder;
- Brakes, Kenneth Smith, Ryder;
- HVAC, Wayne Lambrecht, FedEx;
- Engine, Steve Talmadge, Premier Truck Centers;
- Steering/Suspension, Mike Bogard, Ryder;
- Preventive Maintenance Inspection, Darrel Gravley, Southeastern Freight Lines;
- Drivetrain, Alan LeFever, Pennsylvania Truck Center; and
- Service Information, Rick Johnson, Middleton & Meades.

The first TMCSuperTech was quite a success. But this outcome was not always assured. "After that first meeting [in 2004] when the subject of the PTDC was brought up, I can't tell you how many people came up to me and thought we were crazy," said Brian Strach. "Why would we want to get the technicians involved and as always our answer was 'why not?'. To think back to all the negative thoughts and how the people involved and the technicians turned this into such a positive part of TMC is something I will be proud of until the day I die. I cannot even phantom the number of hours donated by so many individuals that made everything we tried a success."

"One of my fondest memories," said Strach, "was standing on top of the hill in Austin [at TMCSuperTech 2006] with Mike Jeffress at the opening night reception as all the technicians, their families, employers, and other "regular" TMC members mingled below us having cocktails and food as 'equals' and discussing our great industry together. Mike, Steph Sabo, and I all raised our glasses and toasted each other because this is what we had envisioned for such a long time and to see it happening in front of our eyes was amazing. That memory still gives me goose bumps," he said.

"It doesn't seem like 10 years has gone by already but, reflecting back to Valley Forge, I barely knew anyone. For the techs, it was the same and now, even if you are competing for the first time, you will leave with new friends and a better understanding of your capabilities," said Arrants. "TMCSuperTech provides a stage for technicians who service vehicles day in and day out behind the scenes showcase their skills and interact with other techs in their organization or other companies, that has created a network of friends. Thank you to everyone who has supported TMCSuperTech and the technicians, your investment has paid great dividends," he said.

The competition grew quickly in its first few years, thanks to the support of the PTDC Friend of the Technician Sponsors, and the various skills station sponsors, goodie bag donors, and other supporting companies. By 2008, it had expanded to 15 skills stations and featured 121 technicians vying for 96 finalist spots. By 2013, the contest had grown to a full two-day competition format with 112 finalists competing for top honors.

"Ten years ago we threw a small pebble into the pond when we held the first TMCSuperTech competition. If the truth were known, the organizers were probably more nervous than the competitors were that first day. I could not be more proud of how far reaching the ripples from that first competition have gone," said Roger Maye. "As the years have gone by, we have all become a little less nervous. We have seen the competitors' skill levels improve each year and the work stations have had to respond to try and stay ahead of them."

One unexpected consequence, said Maye, has been how much he has learned through this process. "As I have watched the technicians work to complete the test, I have identified that sometimes our service literature could probably be a little more user friendly." Maye also has been amazed at the resourcefulness and skill of the technicians. "They have managed to break things and attempt to complete our station requirements in ways that I would have never imagined."

One of the unique features of TMCSuperTech has always been its attractive prize packages, which have included trips to the Daytona 500, Brickyard 400, as well as thousands of dollars worth of tools, tool boxes, and other valuable items all made possible thanks to scores of donors and sponsors.

"Recognition of Truck Technicians has been long neglected. Their contribution to the industry and their employer's profitability was never recognized before

TMCSuperTech," said PTDC Judges Chairman Tom Tahaney. "TMCSuperTech has shown that our techs are not 'grease Monkeys,' but, are professional technicians in the true sense of the word. They are working on equipment that is more sophisticated than the first lunar lander."

Ten years have come and gone, but the enthusiasm for TMCSuperTech remains strong. Plans are in the works to further enhance the competition with team categories and a student competition for 2014. And as TMCSuperTech enters its second decade, efforts are underway to build the state level of competitions out to include all 50 states, as well as the Canadian provinces and Mexico.

"It's amazing how far we have come and how many people SuperTech has reached since we started with 56 technicians and 5 state competitions in Valley Forge. This year 21 states and a number of companies will hold preliminary competitions to select champions and teams to represent them in the fall," said Bonne Karim, who was PTDC chairman from 2010-2014. "On the other end of the spectrum there are always a few competitors who come on their own without company support to test their skills and learn new things. TMCSuperTech has been instrumental in improving technicians' knowledge and job performance and creating management awareness and appreciation of the critical role technicians play in the company's overall operational success."

"It has been a quick 10 years. I think we have all become better friends and learned some valuable lessons about our products and our industry in general. I am excited to see what the next 10 years will bring for all of us," said Maye.

"Brian, Steph and I visit from time to time still today and we all look at each other with amazement on what the program has become. We are extremely proud that we played a small part in such a wonderful program. I am for ever grateful to these two individuals for pushing me and guiding me to implement what we now know as PTDC during my chairmanship. I will always have extremely fond memories of this time in my life," said Jeffress.




PAST GRAND CHAMPIONS

Steve Talmadge
(2005)

Tyson Sontag
(2006)

Bryan Lewis
(2007 & 2008)

Christopher Tate
(2009)

Jeff Schlecht
(2010 & 2011)

Chris Barnett
(2012)

Mark McLean, Jr.
(2013, 2014, 2017)

Eric Vos
(2015 & 2016)

Phillip Pinter
(2018)

NOTES

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Technology & Maintenance Council

American Trucking Associations, Inc.

950 N. Glebe Road, Suite 210
Arlington, Va. 22203
(703) 838-1763
(703) 838-1701 FAX
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The **Master Lighting and Harness Technician** is the first in the **Truck-Lite Training Institute** series. Modules require 10–40 minutes to complete and contain test questions to verify participants' comprehension and retention. A certificate of completion, along with a promotional incentive, is available when this series is successfully completed. The course includes the following modules:

- Basics in Electricity: Definitions; major concepts; wire calculations; voltage drops
  (allow 20 to 30 minutes to complete)
- Lighting Evolution: A walk through time; the origin of Truck-Lite; evolution of bulb-replaceable, sealed and LED lighting; return on investment
  (allow 15 to 25 minutes to complete)
- Lighting Fundamentals: Why lights fail; troubleshooting failures; tips to prolong lighting life; product pitfalls
  (allow 30 to 40 minutes to complete)
- LED Lighting Performance: Popular lighting terms and definitions; best measurement of LED lighting
  (allow 10 to 15 minutes to complete)
- Harness Fundamentals: Harness basics and color codes; methods for diagnosing failures; proven repair methods
  (allow 30 to 40 minutes to complete)
- Regulations and Questions: Federal lighting requirements; SAE ID codes; common legal questions
  (allow 10 to 20 minutes to complete)

Truck-Lite has partnered with Purkeys, a leader in electrical advisement and solutions for the commercial trucking industry, to develop **Fundamentals of Multimeter Training**, which offers diagnostic training using an Extech electrical multi-meter (allow 45 to 60 minutes to complete).

Truck-Lite has also partnered with 3M, a global leader in innovative solutions for both consumer and commercial industries, to provide **Best Practices with Reflective Tape**. In this course, users will become familiar with reflective materials regulations, uses, application/removal and care and maintenance regarding Truck-Lite's reflective tape product offering (allow 15 to 25 minutes to complete).

The Truck-Lite Training Institute is completely free and available to all Truck-Lite direct customers and fleets. Visit **www.truck-lite.com/tti** to get started today!

Access to S/P2® e-learning program is provided free of charge to competitors in the TMC Supertech 2019 and TMC Futuretech 2019 Competition. BEFORE the competition, instructors/competitors are asked to contact S/P2 by email: info@sp2.org to receive their log-on information for the S/P2 website.

Any questions, call toll free: 1-888-241-8332.

PTDC

SUPERTECH2019

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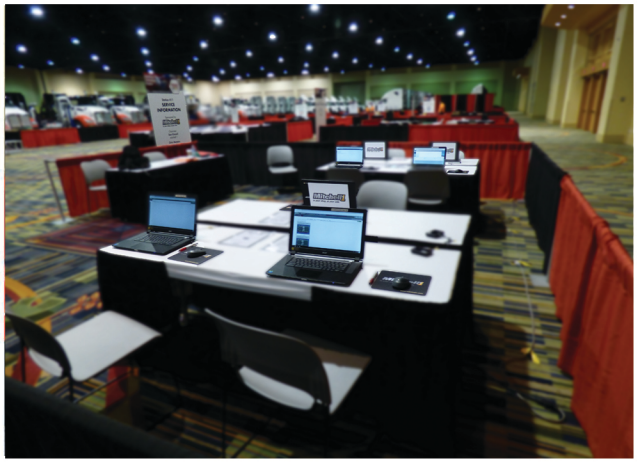

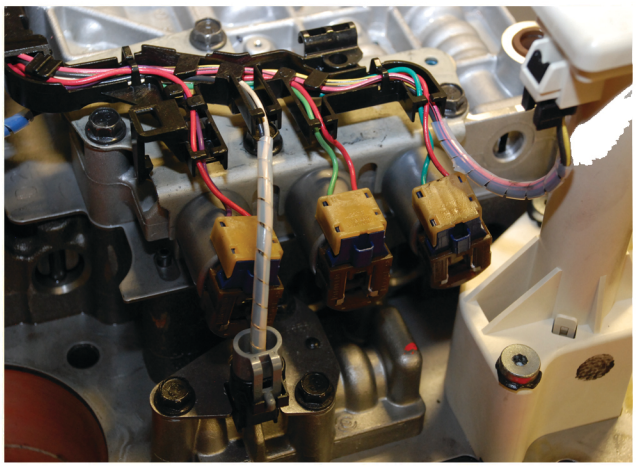

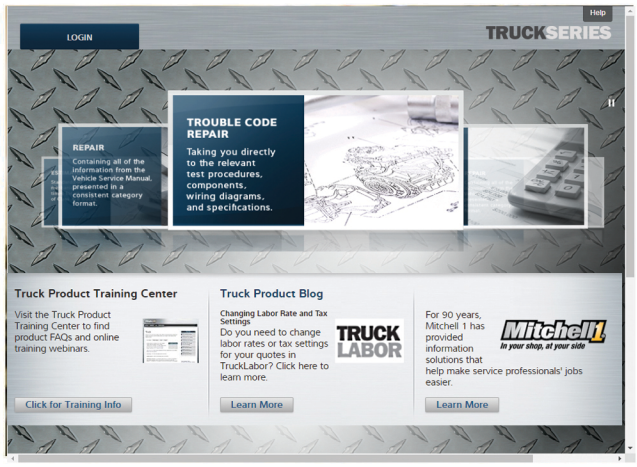

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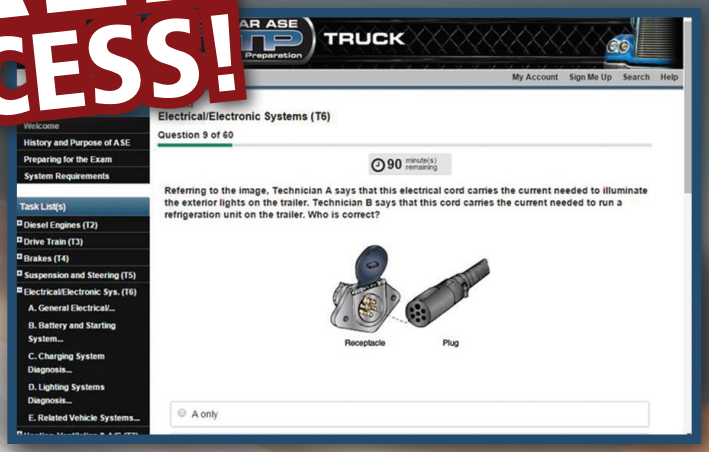

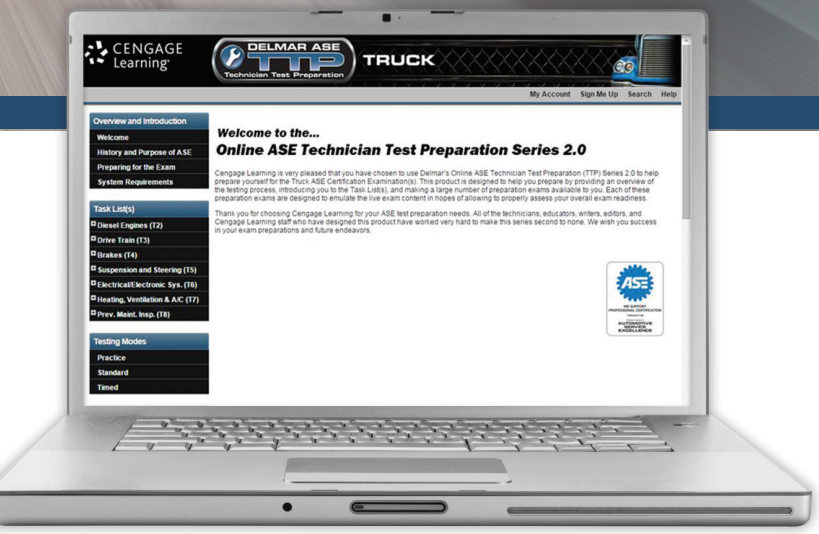

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If you require technical assistance, contact Andrew Ouimet at andrew.ouimet@cengage.com

FleetCross Installation Instructions (desktop)

Prerequisites:

1. Operating System: Windows 7 or newer
2. Microsoft .NET Framework 4.5 or newer
3. Internet Connectivity
4. A valid username and password (provided below)
5. Microsoft Internet Explorer (to use the automated installer described below)

To begin:

1. For installation instructions go to http://v4.fleetcross.net/installation_instructions/install.htm and proceed step by step.
2. At the FleetCross login screen enter the following:
   a. Username: **supertech2019**
   b. Password: **2019supertech** (*password is case sensitive*)

If you have any problems with the installation, please call: **1-800-4A-MOTOR (option 4)**

Demo Videos: Parts > Labor > Service > Job List > All

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