

Seminar Schedule 2017



END USER 2017 FEE & SEMINAR SCHEDULE

| Seminar ¹ | Fee | IACET CEU Accreditation ³ |
|--|-------------|--------------------------------------|
| Technical (2-Day) | \$200 | 1.3 CEU |
| TrapMan [®] (2-Day) | Consult TLV | 1.3 CEU |
| Technical & TrapMan [®] (4-Day) | Consult TLV | 2.6 CEU |
| TrapMan [®] Usage Fee for Seminar ² | Consult TLV | - |

Note: 1. A TLV Seminar Attendance Certificate is provided upon completion of all TLV Seminar programs.

2. If not bringing own TM5, there is a usage fee to rent a TM5 for up to two people.

3. Requires full attendance to all sessions, as well as passing an open book examination.

| Attendees | Seminar | Dates |
|----------------------|-----------------------------------|------------------------------------|
| TLV Reps & End Users | Technical TrapMan [®] | February 7-8 February 9-10 |
| TLV Reps & End Users | Technical | March 2-3 |
| TLV Reps & End Users | Technical TrapMan [®] | May 2-3 May 4-5 |
| TLV Reps & End Users | Technical | June 8-9 |
| TLV Reps & End Users | Technical | August 10-11 |
| TLV Reps & End Users | Technical TrapMan [®] | September 12-13 September 14-15 |
| TLV Reps & End Users | Technical TrapMan [®] | November 7-8 November 9-10 |

Note: Class limited to 20 attendees, with first priority given to existing TLV users.

Advance notice will be given if seminar dates must be changed.

ENROLLMENT GUIDELINES

ENROLLMENT

1. Enrollment form must be completed, signed by the Attendee and the TLV Distributor, and submitted to TLV along with the appropriate fee prior to the seminar date.
2. The appropriate fee must accompany each enrollment form in order to reserve a seat. Seats are available on a first come, first serve basis.
3. Cancellation policy:
 - TrapMan Seminars
 - a) 3 weeks prior to seminar date – A credit memo will be issued for the returned fee.
 - b) 3 weeks or less – Cancellations after this will result in forfeited fee.
 - TrapMan Seat Voucher Redemption Users
 - a) 3 weeks prior to seminar date – Attendee can reschedule without penalty.
 - b) 3 weeks or less – Cancellations after this will result in forfeiture of the TrapMan Seminar seat voucher.

TRANSPORTATION

1. Transportation To and From Charlotte is the responsibility of the Attendee. (Airport is Charlotte/Douglas International.)
2. TLV provides shuttle service to and from airport, hotel, scheduled restaurants, and TLV meeting location.
3. All other transportation charges are the sole responsibility of the Attendee.

ACCOMMODATIONS

1. TLV pays hotel for night preceding the first day of class up to morning check out of last class date.
2. All incidental charges at the hotel (long distance phone charges, bar bills, movies, etc.) as well as extra night's stay are the responsibility of the attendee and must be paid at checkout.

Seminar Schedule 2017



DIRECTIONS TO TLV CORPORATION

TO TLV CORPORATION OFFICE:

13901 South Lakes Drive
Charlotte, NC 28273
Phone: 704-597-9070 / Fax: 704-583-1610

Coming South: I-77 South, crossing over the South Carolina Border. Take Exit 90 for Carowinds Blvd (US 21). Bear right onto Carowinds Blvd. Continue after the 3rd light (at Choate Circle), to the South Point Business Park entrance which is approximately 3/10 mile further down on the left (look for small lake with fountain). Turn left on South Point Blvd; take your next immediate left (between the median dividers) onto South Point Bridge (crosses over the two small lakes with fountains) to the main entrance to TLV.

Coming North: I-77 North to Carowinds Blvd/US 21 Exit 90. Turn left on Carowinds Blvd. Continue after the 4th light (at Choate Circle), to the South Point Business Park entrance which is approximately 3/10 mile further down on the left (look for small lake with fountain). Turn left on South Point Blvd; take your next immediate left (between the median dividers) onto South Point Bridge (crosses over the two small lakes with fountains) to the main entrance to TLV.

From Airport: Exit Airport, and stay on main road, going past the traffic light. Use right lane to bear southbound (signs will indicate that is the way to get to I-77), continue for about 3.5 miles. After passing the traffic light at S. Tryon Street, take entrance on right to I-77 South. Go south for about 7 miles, crossing the South Carolina Border. Take Exit 90 for Carowinds Blvd (US 21). Bear right onto Carowinds Blvd. Continue after the 3rd light (at Choate Circle), to the South Point Business Park which is approximately 3/10 mile on the left (look for small lake with fountain). Turn left on South Point Blvd; take your next immediate left (between the median dividers) onto South Point Bridge (crosses over the two small lakes with fountains) to the main entrance to TLV.

TO HYATT HOUSE (FORMERLY SUMMERFIELD SUITES):

4920 S. Tryon St.
Charlotte, NC 28217
Phone: 704-525-2600 / Fax: 704-521-9932

Coming South on I-85: South on I-85 to I-77, take I-77 South to Billy Graham Parkway (South Tryon St.) Exit 6B. Immediately after ramp, bear right. Go through 1 light. Hotel is on the right, after La Quinta.

Coming North on I-85: North on I-85, take right at Billy Graham Parkway Exit, (heading south). Go about 7 miles, then take right on South Tryon St. Go through 1 light. Hotel is on right, after La Quinta.

Coming South on I-77: Take I-77 South to Billy Graham Parkway (South Tryon St.) Exit 6B. Immediately after ramp, bear right onto South Tryon St. Go through 1 light. Hotel is on the right, after La Quinta.

Coming North on I-77: Take I-77 North to Billy Graham Parkway Exit 6B. Immediately after ramp, change lanes to the far left and take left at light onto South Tryon St. Move over to the far right lane, and go through 1 light (Yorkmont Road). Hotel is on right, after the La Quinta.

From Airport: Exit Airport, and stay on main road (Josh Birmingham Parkway), going past the traffic light. Use right lane to bear right onto Billy Graham Parkway heading south, (signs will indicate that is the way to get to I-77). Go about 3.5 miles. At the traffic light at S. Tryon Street, turn right. Go through 1 light. Hotel is on the right, after La Quinta.

CHARLOTTE AREA ATTRACTIONS

SPORTS TEAMS

- Carolina Panthers (NFL)
- Charlotte Hornets (NBA)
- Charlotte Knights (Minor League Baseball)
- Charlotte Checkers (Minor League Hockey)
- UNCC 49ers (NCAA Football)

SHOPPING

- South Park Mall (Largest mall in NC/SC with Tiffany's, Neiman Marcus, etc.)
- Carolina Place Mall
- Concord Mills (Concord, NC)
- Premium Outlets (Charlotte, NC)

SPORTING ACTIVITIES

- US National Whitewater Center (Rafting, Kayaking, Hiking, Mountain Biking, Rock Climbing, Zip Lines, Canopy Tours)
- Lake Norman / Lake Wylie (Boating, Fishing, Water Skiing)
- Over 5 Local Golf Courses

OTHER ACTIVITIES

- Carowinds Theme Park - 10 Minutes
- NASCAR Hall of Fame - 15 Minutes
- Blumenthal Theatre of Performing Arts - 15 Minutes
- Mint Museum of Craft and Design - 20 Minutes
- Charlotte Motor Speedway - 30 Minutes
- zMAX Dragstrip - 30 Minutes
- Daniel Stowe Botanical Gardens (Belmont, NC) - 35 Minutes
- NC Transportation Museum (Spencer, NC) - 1 Hour
- Riverbanks Zoo (Columbia, SC) - 1 Hour, 30 Minutes
- NC Zoo (Asheboro, NC) - 1 Hour, 40 Minutes
- Blowing Rock, NC (Art colony with shops, Tweetsie Railroad) - 1 Hour, 45 Minutes
- Biltmore Estate (Asheville, NC) - 2.5 Hours
- Grandfather Mountain (one of the highest peaks in the Blue Ridge Mountains at an elevation of 5,946 ft) - 2 Hours, 5 Minutes
- Blue Ridge Parkway (National Parkway running 470 miles along the Blue Ridge Mountains) - 2 Hours, 15 Minutes
- Linville Falls State Park (Beautiful waterfalls and hiking) - 2 Hours, 10 Minutes

TLV Seminar Enrollment Form

Name: _____ Phone: _____

Title: _____ Fax: _____

Company: _____ Email: _____

Address: _____

TLV Distributor: (if End User) _____

Attendee is: End User Design Engineer Survey Contractor Wholesaler
 Installation Contractor OEM Student

Mark the Seminar(s) You Are Interested In Attending.
Please note optional IACET CEU/PDH Accreditation

- Technical Seminar (2-day)**
 - Option: 1.3 CEU/ 13 PDH
- TrapMan® Seminar (2-day)**
 - Option: 1.3 CEU/ 13 PDH
- Technical & TrapMan® (4-day)**
 - Option: 2.6 CEU/ 26 PDH

Seminar Date Requested (Month and Year):

As an IACET Authorized Provider,
TLV offers CEUs for its programs that
qualify under the ANSI/IACET Standard.



TrapMan® Attendees Only:

- I WILL NOT bring my **TM5** unit and will pay the course fee¹ plus a TM5 usage fee (up to 2 people per **TM5**)

Signature: _____

- I WILL bring my **TM5** unit and will pay only the course fee (up to 2 people per **TM5**)

Signature: _____

Technical Seminar

Each participant will be able to:

- Properly identify necessary steam trapping locations
- Differentiate between steam trap types
- Select the best steam trap type for a given application
- Size & select steam traps based on process conditions
- Create a stall chart to identify process opportunity
- Size & select PowerTraps® based on open or closed system
- Size a COSPECT® Pressure Reducing Valve for single & two-stage pressure reduction

CEU/PDH accreditation (optional) requires full attendance to all sessions, as well as passing an open book examination.

TrapMan® Seminar

Each participant will be able to demonstrate proper use of TrapMan® condition monitoring system:

- Setup areas and Trap Id numbers
- Create a steam trap database with TrapManager® software
- Create a steam trap inspection route
- Transfer data between TrapManager® & TM5
- Create traps records with TM5
- Inspect steam trap operational condition with TM5
- Utilize analysis & reporting functions in TrapManager®

CEU/PDH accreditation (optional) requires full attendance to all sessions, as well as demonstration of the above activities.

Attendee Signature: _____ Date: ____/____/____

(Please complete this form and send it to your local TLV Distributor)

Distributor Signature: _____ Date: ____/____/____

(Distributor: Please send completed form to TLV CORPORATION by Fax: 704-583-4781 or Email: Rhodes@TLVengineering.com)

TLV® TECHNICAL SEMINAR

| Time | Presentation |
|----------|---|
| | DAY 1 |
| | STEAM LAB START-UP |
| 8:30 AM | Introductions |
| 9:00 AM | Welcome |
| 9:20 AM | Steam Principles |
| 10:00 AM | <i>BREAK</i> |
| 10:15 AM | Steam Principles (cont'd) |
| 10:45 AM | Steam Trap Operation - Thermostatic Traps |
| 12:00 PM | LUNCH / STEAM LAB DEMOS |
| | Lab Tour & Glass Trap Display |
| 1:00 PM | Steam Trap Operation - Mechanical Traps |
| 2:00 PM | Steam Trap Operation - Thermodynamic Traps |
| 3:00 PM | <i>BREAK</i> |
| 3:30 PM | Steam Trap Installation, Selection & Sizing |
| | DAY 2 |
| | AIR LAB START-UP |
| 8:30 AM | Steam System Economics |
| 9:15 AM | Condensate Drainage |
| 10:00 AM | <i>BREAK</i> |
| 10:15 AM | Condensate Drainage (cont'd) |
| 11:15 AM | Moisture Separation / Compressed Air Drainage |
| 12:00 PM | LUNCH / STEAM LAB DEMOS |
| | GP/GT10 PowerTrap operation |
| | DC3 Series Separator operation |
| | TATSU2 liquid drainer operation |
| 12:00 PM | <i>LUNCH</i> |
| 1:00 PM | Pressure and Temperature Control |
| 2:30 PM | CES Capabilities |
| 3:15 PM | Closing Remarks |

TLV TrapMan® SEMINAR

| Time | Presentation |
|----------|--|
| | DAY 1 |
| 8:30 AM | Introductions |
| 9:00 AM | Trap Survey Setup |
| 9:30 AM | TrapManager software - Hardware/System Requirements |
| 10:00 AM | <i>BREAK</i> |
| 10:15 AM | TrapManager software - Setting Up a New Database |
| 12:00 PM | <i>LUNCH</i> |
| 1:00 PM | TrapManager software - Trap Log Editing |
| 3:00 PM | <i>BREAK</i> |
| 3:15 PM | TrapManager software - Creating and Modifying Routes |
| | DAY 2 |
| | STEAM LAB START-UP |
| 8:30 AM | TM5 diagnostic unit - Keypad Functions; Test Procedure |
| 10:00 AM | <i>BREAK / STEAM LAB DEMO</i> |
| | STEAM LAB: Trap Testing with TM5 |
| 11:15 AM | TM5 Upload of Data and Review |
| 12:00 AM | <i>LUNCH</i> |
| 1:00 PM | TrapManager Reports and Analysis |