

Bowlby & Associates, Inc.

Traffic Noise Modeling with FHWA TNM 2.5[©] Virtual Training Course, October 5 - 9, 2026

Why attend this virtual course offered on the Zoom[®] platform?

Without having to travel, you will learn the correct way to model traffic noise in the context of doing a noise study. Some state transportation agencies require traffic noise training for pre-qualification. We have trained over 1,500 professionals in traffic noise fundamentals and the use of TNM since the program's initial release in 1998. Participants have come from over 50 State, Federal, local, and Canadian transportation agencies and numerous consulting firms. Simply put, we enjoy teaching and sharing what we know!

- ✓ **Hands-on work with real-world problems**
- ✓ **Small-group breakout room discussions**
- ✓ **One-on-one assistance as needed**
- ✓ **A comprehensive course workbook**

We focus on the Federal Highway Administration (FHWA) Traffic Noise Model[®] Version 2.5. We will also introduce you to some features of TNM 3.

Who should attend?

Professionals who use TNM on project studies or who supervise or review TNM modeling conducted by others. Many course attendees have little or no experience in traffic noise modeling. For them, we strongly recommend our optional one-day ***Traffic Noise Fundamentals*** front-end session.

Our instructors:

Dr. Darlene Reiter, P.E., Mr. Rennie Williamson, and Mr. Geoffrey Pratt, P.E., will teach the course. They have over 60 years of combined experience in traffic noise work. Our team has used TNM on hundreds of highway projects – many being extremely complex. We completed the Beta Testing of TNM version 3.2 for FHWA and the Volpe Center. Dr. Reiter was the lead researcher for FHWA's *Techniques for Reviewing Noise Analyses and Associated Noise Reports*. Mr. Williamson assisted in developing the FHWA Consistency Test Suite for TNM 3.0 and was the Principal Investigator for the Beta Testing of TNM version 3.2. Mr. Pratt was one of the key researchers for NCHRP Report 791, *Supplemental Guidance on the Application of FHWA's TNM*. Mr. Williamson and Mr. Pratt are also experienced users of MicroStation[®] and GIS.

- ✓ **"Overall excellent training...probably one of the best I have participated in over the years...Thought there was a lot of benefit to being virtual..." - Kendra Miller, GBA**
- ✓ **"I placed a lot of value on the patience, high spirits, and extensive TNM knowledge from the course instructors." - Lucious McEachin III, North Carolina DOT**
- ✓ **"I really liked the break-out room aspect of the Zoom meeting." - Jim Spatz, Pennsylvania DOT**
- ✓ **"I would highly recommend this course to anyone that is trying to learn the fundamentals of noise analysis." - Steven Strack, Houston Engineering, Inc.**
- ✓ **"Very knowledgeable group of instructors...will highly recommend the course." - Jared Sweat, Florida DOT**

Course Prerequisites

All students attending the course must possess a basic understanding of highway traffic noise acoustical concepts, including: *characteristics of sound, sound level descriptors, traffic noise sources, sound propagation, and noise barrier basics*.

These concepts are critical for successful TNM 2.5 training and are not covered in the course. Students lacking this knowledge should complete the National Highway Institute (NHI) course: *Acoustics of Highway Traffic and Construction Noise* (https://www.nhi.fhwa.dot.gov/course-search?tab=0&key=noise&sf=0&course_no=142086) in advance of the course. This online course is free and can be completed at your convenience.

Course Content (all times are Central, subject to change)

Optional Traffic Noise Fundamentals Session: Monday, 10 a.m. to 3:30 p.m. (4.5 PDH units)

- **FHWA Noise Regulation, Policy & Procedures:** Detailed exploration of 23 CFR 772 and related guidance
- **Conducting & Reporting a Traffic Noise Study:** Overview of the noise study process

TNM 2.5: Tuesday - Thursday, 8 a.m. to 5 p.m.; Friday 8 a.m. to approx. 4 p.m. (29 PDH units)

- **Introduction to TNM:** Concepts; emission levels; propagation and attenuation algorithms
- **Site Modeling and Noise Barrier Design Considerations:** PowerPoint presentations on analysis and design considerations to inform the modeling process
- **Input Data Objects and Concepts:** Roadways (free flow, on structure, and interrupted flow); receivers; barriers; building rows; terrain lines; ground zones; tree zones
- **Noise Barrier Concepts:** Barriers on structure; earth berms; line of sight check; interactive barrier design process; sound reflection and absorption; parallel barrier analysis
- **Data Input and Editing:** Input dialog boxes; graphical editing; “heads-up” digitizing; creating TNM runs from CAD and GIS, including importing DXF files
- **Data Display and Output:** Plan, profile, skew-section and perspective views; input and results tables; sound level contours; printing and plotting
- **Workshops** on simple, intermediate, and complex problems, including real-world site modeling exercises

Course Policies

Logistics: You will need to download and install the FHWA TNM 2.5 program from the [FHWA website](#) and a folder of course files from us before the course. For the course itself, the use of two monitors - one for the presentations and one for your version of TNM 2.5 - is highly recommended, along with a webcam.

Registration Policy: To complete registration, please submit the registration form and payment or purchase order to Bowlby & Associates, Inc. well before the course dates. Your placement in the course will be determined by availability and the order in which payment is received (unless otherwise arranged).

Registration Cancellation Policy: To cancel a registration, please email Rennie Williamson (rwilliamson@bowlbyassociates.com) as soon as possible. Refunds, net of a \$100 administration fee, will be issued when cancellation is confirmed more than 14 calendar days in advance of the course start date. Cancellation between 1-14 calendar days of the course start date will only be refunded (minus a \$100 administrative fee) when registration is replaced with another participant.

Course Cancellation Policy: Because we are a for-profit business, we reserve the right to cancel a course in the event of insufficient registration at any time prior to the course without liability and without assurance that we will teach a future session. Should we cancel, we would issue a full refund and would give registrants the first opportunity to register for a future course, if offered.

Course Completion: Because some agencies require a noise modeling course for prequalification, we require each participant to complete the course before earning a certificate. If you must miss portions of the course, you will have to complete the missing sessions before earning the certificate; in such cases, there will be a fee for us to review that work and issue the certificate.

Certificate Reissuance Policy: Please retain your course certificate for proof of attendance. Certificate reissuance is generally limited to a letter from Bowlby & Associates confirming attendance. There will be a charge if a new certificate is required.

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Registration

Cost: The table below lists the costs for the course and payment options.

If paying by check...	
Check one:	5-day (Mon.-Fri., October 5 - 9, 2026), TNM + Fundamentals (\$2,500) 4-day (Tues.-Fri., October 6 - 9, 2026), TNM only (\$2,300) 1-day (Mon., October 5, 2026), Fundamentals only (\$250)
Check # _____ is enclosed - or - Purchase order # _____ is enclosed.	
If paying by credit card...	
Check one:	5-day (Mon.-Fri., October 5 - 9, 2026), TNM + Fundamentals (\$2,575) 4-day (Tues.-Fri., October 6 - 9, 2026), TNM only (\$2,375) 1-day (Mon., October 5, 2026), Fundamentals only (\$260)

Additional Costs: TNM registrants residing in Canada or Mexico will incur an additional \$50.00 fee for workbook shipment; shipping costs for other countries will vary. If you miss portions of the course, we will bill you at **an hourly rate of \$150** for the additional review of your work before issuing your certificate. Reissuing a lost certificate will cost \$50.

Payment: Checks for the total amount should be sent to **Bowlby & Associates, Inc., 7003 Chadwick Dr, Suite 258, Brentwood, TN 37027**. Payments by credit card should be made online at our secure payment site: <https://bowlbyassociates.securepayments.cardpointe.com/pay?>

Registration Form: Please submit this completed registration form with your payment. This completed form can also be emailed to Rennie Williamson (rwilliamson@bowlbyassociates.com).

Privacy Policy: We respect your privacy. Any information collected by Bowlby & Associates, Inc. is for our internal use only: We do not share or sell information. We do distribute a roster with contact information to attendees only.

Please fill in:	Course Attendee
Name (First, middle initial, last)	
Preferred first name (if different than above)	
Firm/Organization	
Organization street address	
Organization city, state, zip	
Organization phone	
Registrant's phone	
Registrant's e-mail	

Note: Standard US shipping is via US Postal Service. International shipping may be via FedEx or USPS.

Please fill in:	Shipping Address (for Training Materials; if different than above)
Recipient's Name	
Company (if applicable)	
Address1	
Address2	
City, state, zip	
Contact Phone Number	
Is this home or business?	
Add'l shipping instructions	

For more information, please contact Rennie Williamson (rwilliamson@bowlbyassociates.com).