# CONSULTANT & CONTRACTOR TRAINING

<table>
<thead>
<tr>
<th>DATE</th>
<th>LOCATION</th>
<th>TITLE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 13-15</td>
<td>Becker Hansen Building, Pierre</td>
<td>NHI 380095 Geometric Design: Applying Flexibility &amp; Risk Management*</td>
<td>$525*</td>
</tr>
<tr>
<td>Dec. 3-5</td>
<td>Hilton Garden Inn, Sioux Falls</td>
<td>NHI 130053 Bridge Inspection Refresher*</td>
<td>$955*</td>
</tr>
<tr>
<td>Jan. 14-15</td>
<td>Becker Hansen Building, Pierre</td>
<td>NHI 130087 Inspection &amp; Maintenance of Ancillary Highway Structures*</td>
<td>$775*</td>
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</tbody>
</table>

*NHI courses must be registered and paid through [https://www.nhi.fhwa.dot.gov/home.aspx](https://www.nhi.fhwa.dot.gov/home.aspx)

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# 2020 CERTIFICATION COURSES

<table>
<thead>
<tr>
<th>DATE</th>
<th>LOCATION</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>Dec. 17-19, 2019</td>
<td>Pierre</td>
<td>Concrete Paving</td>
<td>$150</td>
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<tr>
<td>Jan. 6-8</td>
<td>Sioux Falls, Pierre</td>
<td>Aggregates Testing</td>
<td>$75</td>
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<tr>
<td>Jan. 27-29</td>
<td>Aberdeen, Pierre</td>
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<tr>
<td>Feb. 10-12</td>
<td>Rapid City</td>
<td>Soils Testing</td>
<td>$75</td>
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<tr>
<td>Mar. 9-11</td>
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<tr>
<td>Jan. 8-10</td>
<td>Sioux Falls, Pierre</td>
<td>Concrete Plants</td>
<td>$150</td>
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<tr>
<td>Jan. 29-31</td>
<td>Aberdeen, Pierre</td>
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<tr>
<td>Feb. 12-14</td>
<td>Pierre</td>
<td></td>
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<tr>
<td>Mar. 11-13</td>
<td>Rapid City</td>
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<tr>
<td>Jan. 21-23</td>
<td>Pierre</td>
<td>Erosion &amp; Sediment Control</td>
<td>$150</td>
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<tr>
<td>Feb. 4-5</td>
<td>Pierre</td>
<td>Structures</td>
<td>$150</td>
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<tr>
<td>Feb. 19-20</td>
<td>Sioux Falls</td>
<td>Earthwork</td>
<td>$150</td>
</tr>
<tr>
<td>Feb. 25-26</td>
<td>Rapid City</td>
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<tr>
<td>Feb. 10-13</td>
<td>Pierre</td>
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<tr>
<td>Mar. 23-25</td>
<td>Pierre</td>
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</table>

To Register for SD DOT courses, send an email to dotlms@state.sd.us

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Training Questions? Send an email to dotlms@state.sd.us or call Michele at 605-773-2371. Thank you!
## TLN Courses

<table>
<thead>
<tr>
<th>DATE/TIME</th>
<th>TYPE/DEADLINE TO REGISTER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 13</td>
<td>Webinar/Nov. 7</td>
<td>High Friction Surface Treatments</td>
</tr>
<tr>
<td>Nov. 14</td>
<td>Video Conference/Nov. 7</td>
<td>Reinforced Concrete Corrosion &amp; Mitigation</td>
</tr>
<tr>
<td>Nov. 21</td>
<td>Video Conference/Nov. 14</td>
<td>Deterioration &amp; Repair of Concrete Pavements</td>
</tr>
<tr>
<td>Nov. 26</td>
<td>Video Conference/Nov. 19</td>
<td>Attitudes, Choices, Opportunity.</td>
</tr>
<tr>
<td>Nov. 26</td>
<td>Video Conference/Nov. 19</td>
<td>Cracking the Cohesive Teams Code</td>
</tr>
</tbody>
</table>

TLN courses must be registered through [www.tln.learnflex.net](http://www.tln.learnflex.net). Video Conferences must be watched at a DOT Region or Area office.

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Thank you!
NHI 130053 Bridge Inspection Refresher Training

DECEMBER 3-5, 2019 | COST: $955 | CEU: 1.8
HILTON GARDEN INN SOUTH | 5300 S GRAND CIR | SIOUX FALLS, SD

The major goals of this course are to refresh the skills of practicing bridge inspectors in fundamental visual inspection techniques; review the background knowledge necessary to understand how bridges function; communicate issues of national significance relative to the nations’ bridge infrastructures; re-establish proper condition and appraisal rating practices; and review the professional obligations of bridge inspectors.

This course is based on the “Bridge Inspector's Reference Manual,” 2002 (updated in 2006) with reference to the AASHTO Manual as defined by the National Bridge Inspection Standards regulation.

Core course topics include inspector qualifications and duties, bridge mechanics, record keeping and documentation, fatigue and fracture in steel bridges, traffic safety features, safety, National Bridge Inventory (NBI) component ratings, superstructure type identification, inspection techniques and case studies for decks, superstructures, bearings, substructures, channels and culverts, and a mock bridge inspection classroom exercise.

OUTCOMES

Upon completion of the course, participants will be able to:
- Describe the current overall condition and condition trends for the nation’s bridges
- Identify the recent National Bridge Inspection Standards (NBIS) revisions
- Accurately code National Bridge Inventory (NBI) items
- Identify and document inspection observations using standard methods
- Evaluate defects based on the 2008 AASHTO Manual for Bridge Evaluation
- Code NBI components using the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation’s Bridges
- Determine if overall structure/structural member is fracture critical prone
- Accurately inspect and evaluate a bridge’s four traffic safety features
- List the keys to ensuring a safe work environment
- Explain bridge responses and bridge mechanic principles

TARGET AUDIENCE

The target audience for this course includes Federal, State, and local agencies and private sector personnel employed in inspecting bridges or managing bridge inspection programs. The course is built to accommodate those that have completed comprehensive bridge inspection training (130055 or similar) or met the criteria for a bridge inspector under the State’s procedures or requirements.

DATE: Wednesday, November 13 2019
TIME: 10:00 – 11:00 AM CT (9:00 – 10:00 MT)

DESCRIPTION:
This webinar will discuss the application of High Friction Surface Treatments (HFST) on roadways in South Dakota. HFST has been successfully used to reduce roadway departure crashes in various locations throughout South Dakota. These locations have had high rates of crashes due to wet or wintery conditions. The presentation will briefly discuss the history of HFST and how SDDOT got started. Success stories, including not-so-successful stories, will be shared in this presentation. SDDOT has received regional awards in innovation and safety for their efforts in the application of HFST on their roadways.

TARGET AUDIENCE:
This presentation will benefit all staff who are involved in pavement surfaces. Design, maintenance, bridge, pavements, safety, etc will all benefit from this presentation. Organization’s Innovation Teams will also benefit from attending this session.

PRESENTER:
Andy Vandel, SDDOT Traffic Safety Engineer, has been a champion for safety and reducing roadway departures at SDDOT. Andy has won awards and received recognition for his efforts and success in reducing roadway departure crashes through the application of HFST.
REINFORCED CONCRETE: CORROSION AND CORROSION MITIGATION

DATE: Thursday, November 14, 2019
TIME: 2:00 – 4:30 pm CT (1:00 – 3:30 pm MT)
REGISTRATION DEADLINE: Thursday, November 7, 2019

DESCRIPTION: Corrosion is the leading cause of concrete deterioration and repair. Corrosion mitigation can extend the service life of repairs and is key to bridge preservation. Understanding corrosion mechanics and kinetics allows bridge engineers, materials engineers, planners and maintenance personnel to develop and implement approaches to effectively mitigate corrosion. This presentation uses the results of independent laboratory research and data from monitored concrete restoration projects in North America to illustrate effective and ineffective corrosion mitigation strategies. The principles presented will help you to understand why the approach was effective or not.

The following topics will be covered:
- Why does steel corrode?
- How do you determine the root cause of corrosion and concrete deterioration problems?
- Corrosion mitigation options for new and old structures, including:
  - Coatings and sealers
  - Galvanic protection
  - Chloride extraction
- Corrosion and corrosion protection of post-tensioned structures
- Case histories

TARGET AUDIENCE:
Structural and materials engineers, construction inspection staff, state and local government road superintendents.

PRESENTER: David Whitmore, PE, FCSCE, FACI, FICRI has over 25 years of experience repairing corroded reinforced concrete structures. David is President of Vector Corrosion Technologies Ltd and is past chairman of ACI (American Concrete Institute) E706: Repair Education Committee. Dave is a co-author of TRB’s second Strategic Highway Research Program (SHRP 2) Report S2-R19A-RW-1: Bridges for Service Life Beyond 100 Years which developed approaches and procedures to enhance service life design for existing and new bridges.
DATE: Thursday, November 21, 2019
TIME: 10:00 AM – 3:00 PM CT (9:00 AM – 2:00 PM MT)

DESCRIPTION:
Concrete pavement is a durable but not eternal material. Despite its longevity, it eventually deteriorates and requires repair or replacement. This presentation focuses on repairing deteriorated concrete pavement and will the latest concrete preservation guides from the National Concrete Pavement Technology Center. It will also cover various full and partial depth repairs techniques including:

- 2018 Guide for Concrete Pavement Distress Assessments and Solutions - National Concrete Pavement Technology Center
- 2014 Concrete Pavement Preservation Guide - National Concrete Pavement Technology Center
- Partial and Full Depth Repairs (thick and thinner existing slabs)
  - Rural and Urban Considerations
- Crack repair treatments
- Surface and ride treatments such as grinding and grooving

TARGET AUDIENCE:
Designers, maintenance coordinators, general maintenance staff, local road superintendents and city public works/streets maintenance coordinators.

PRESENTERS:
Daniel P. Frentress, PE, is a PCC pavement preservation specialist), having developed his career working with the American Concrete Paving Association, the Concrete Paving Association of Minnesota, and as an Assistant County Engineer in Iowa. Since 2002 Dan has managed his own consulting business specializing in PCC pavement related training for MnDOT and others and holds a Professional Engineer’s license in Minnesota and Iowa. Dan is also a member of the American Society of Civil Engineers and the American Concrete Institute.

Dale S. Harrington, P.E., is President of HCE Services and has over 46 years as a Professional Engineer. He has managed and directed multi-million-dollar highway projects and research programs throughout these years at the local, state and federal levels. He was the founding Director of the Portland Cement Concrete Pavement Technology Center at Iowa State University and the Statewide Urban Design and Specification Program.
DATE: Tuesday, November 26, 2019
TIME: 9:30 AM - 12:00 PM CT (8:30 – 11:00 AM MT)  
DELIVERY: Video Conference
REGISTRATION DEADLINE: Tues., November 19, 2019

DESCRIPTION:
How much untapped ability lies within you? Are you focusing on the 90% in your life that IS working... or the 10% that is not working? Your attitude is a choice you make - and there is a lot riding on that choice. In this presentation, we will discover the four phases of attitudes and learn practical techniques for building and maintaining a positive one. Learn to explore opportunities to propel yourself to the highest levels of success!

TARGET AUDIENCE:
This presentation is for all staff members.

PRESENTER:
Michelle J. Wall, People Performance Igniter, Business Results Orchestrator, works with organizations, teams, and individuals to boost performance, implement change, and develop and implement strategy. She coaches business professionals in areas of leadership, communication, sales, presentations, process improvement, customer service, and employee engagement.

TRANSPORTATION LEARNING NETWORK
A partnership with MDT•NDDOT•SDDOT•WYDOT and the Mountain-Plains Consortium Universities

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CRACKING THE COHESIVE TEAMS CODE

DATE: Tuesday, November 26, 2019
TIME: 1:30 - 4:00 PM CT (12:30 – 3:00 PM MT)
DELIVERY: Video Conference
REGISTRATION DEADLINE: Tues., November 19, 2019

DESCRIPTION:
Your Team Can Do Better! There are many reasons teams fail. There’s one proven way to help them succeed. The Five Behaviors Model is the secret code to your team’s performance. It’s used to help team members learn to work together more efficiently and effectively and become a more cohesive team. A productive, high-functioning team:

- Makes better, faster decisions
- Taps into the skills and opinions of all members
- Avoids wasting time and energy on politics, confusion, and destructive conflict
- Avoids wasting time talking about the wrong issues and revisiting the same topics over and over again because of a lack of buy-in
- Creates a competitive advantage
- Is more fun to be on!

High performance teams can create a significant competitive advantage when it comes to developing innovative products, providing outstanding service or solving complex problems. Yet too often, the competitive advantage is lost as team members struggle to work together effectively.

TARGET AUDIENCE:
This presentation is for all staff members.

PRESENTER: Michelle J. Wall, People Performance Igniter, Business Results Orchestrator, works with organizations, teams, and individuals to boost performance, implement change, and develop and implement strategy. She coaches business professionals in areas of leadership, communication, sales, presentations, process improvement, customer service, and employee engagement.

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