

Construction Inspection Refresher Series  
New York State Department of Transportation

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Construction Inspection Series  
NICET Level I – Highway Construction Inspection  
Refresher Series #1  
Lesson #1 – Route 51 over Steele Creek



Expertise Project VR  
Develop expertise. Enjoy the workplace.

# Construction Inspection Refresher Series

New York State Department of Transportation

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- This program is intended to assist construction inspection professionals prepare for early credentialing exams – especially the NICET Transportation Inspection Level 1 Exam.
- This program features 360-degree virtual reality (360 VR) videography and tools to help introduce transportation infrastructure related work environments to those who have not spent much time on site.
- This program is also intended for use in high school and college level programs to enable educators to utilize NYSDOT content inside of their curricula and to help recruit candidates through introduction of career fields in the NYSDOT and the broader transportation infrastructure industry.



# Instructor Introduction

Mike Baron

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- Engineer. Professional Civil Engineer, Licensed in New York and other states, practicing for ~ 20 years, with initial focus in building structural systems, but expanded to serve in a variety of infrastructure design roles and projects.
- Educator. Served 3.5 years as an instructor of Civil Engineering Technology at Hudson Valley Community College, teaching courses such as print reading, soils and foundations, structural steel and concrete design, and others.
- Entrepreneur. Co-Founder of Expertise Project and working to develop a network to make it easier to gain expertise. Captured much of the video content contained in this refresher series.
- Believer in human expertise and that all people are capable of finding rewarding careers when given the right exposure and early training.



# Transportation Construction Inspection

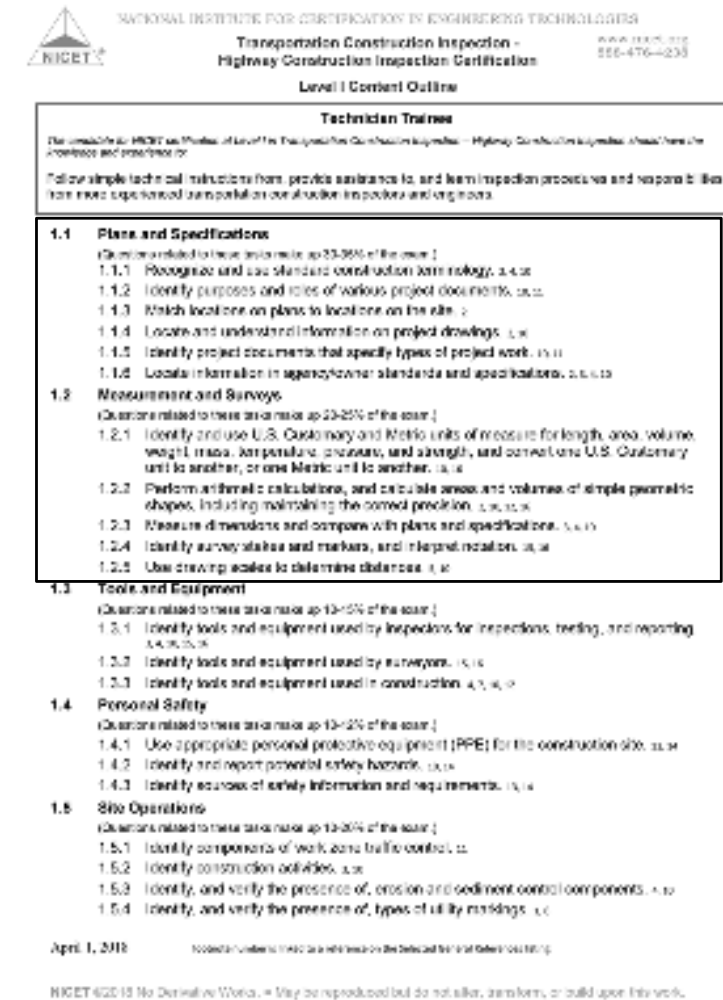
## NICET Level 1 – Content Outline

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The NICET Level 1 Exam measures a candidate's ability to follow simple technical instructions and learn from more experienced inspectors and engineers.

Some candidates require support refreshing their ability to read plans, perform arithmetic calculations, and understand the basic environments of a construction site.

- Plans and Specifications (30 – 35%)
- Measurements and Surveys (20 – 25%)
- Tools and Equipment (10 – 15%)
- Personal Safety (10 – 12%)
- Site Operations (10 – 20%)



# Route 51 over Steele Creek

## Lesson Outline

This lesson introduces a real-world construction project and practices connecting a series of construction documents and specifications to what is seen on video.

- |                                    |                             |
|------------------------------------|-----------------------------|
| 1. Site Introduction               | Presentation                |
| 2. VR Field Trip                   | Self Guided / Presentation  |
| 3. Document Introduction           | Self Guided / Presentation  |
| 4. Bridge and Road Questions       | Self Guided, with Solutions |
| 5. Stream and Foundation Questions | Self Guided, with Solutions |
| 6. Dewatering Discussion           | Self Guided / Presentation  |

This lesson assumes that you have completed the “Lesson #0 – Fundamentals” series and are familiar with the software tools and terminology required for this course.

