

A nighttime photograph of a railway track stretching into the distance. The tracks are flanked by dry, yellowish grass. In the background, a city skyline is visible with various buildings and lights. A sign on the left side of the track reads "VIA I".

# The Ultimate Civil PE Review Course

Presented by: Civil Engineering Academy

# Introduction:

## Course Outline and Objectives

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# Course Outline

- ▶ Simply follows the exact format listed on the NCEES specifications (8 sections).
- ▶ Lecture 20% theory and 80% practice.

1. Project Planning
2. Means and Methods
3. Soil Mechanics
4. Structural Mechanics
5. Hydraulics and Hydrology
6. Geometrics
7. Materials
8. Site Development

## CIVIL BREADTH Exam Specifications

	Approximate Number of Questions
<b>I. Project Planning</b>	4
A. Quantity take-off methods	
B. Cost estimating	
C. Project schedules	
D. Activity identification and sequencing	
<b>II. Means and Methods</b>	3
A. Construction loads	
B. Construction methods	
C. Temporary structures and facilities	
<b>III. Soil Mechanics</b>	6
A. Lateral earth pressure	
B. Soil consolidation	
C. Effective and total stresses	
D. Bearing capacity	
E. Foundation settlement	
F. Slope stability	

# Objectives

- ▶ Ace the breadth portion of the civil PE exam!





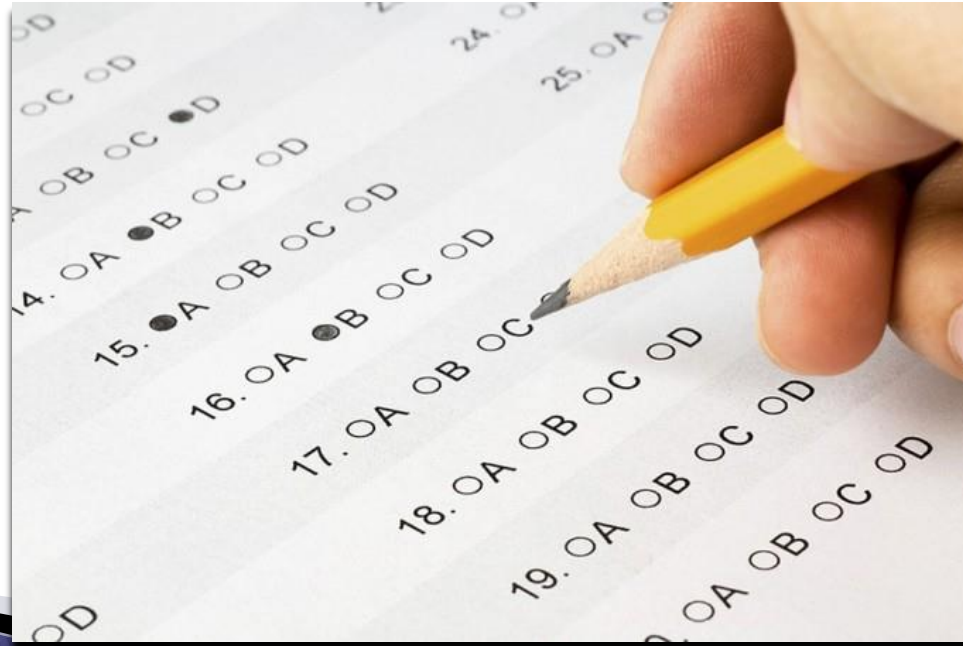
- ▶ Become more familiar with the type of problems asked and know how to solve them.
- ▶ I want you to crush the breadth portion (and depth)!!



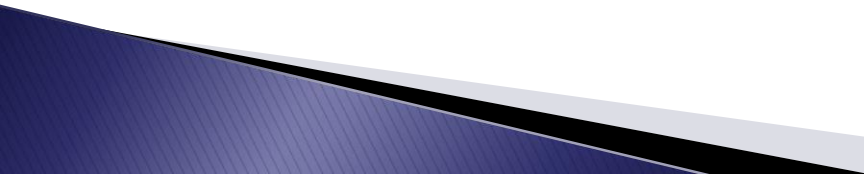
- ▶ Know what resources you should be buying to help you practice and study.



- ▶ Test yourself with a practice exams similar to the actual exam (40 question breadth test).
- ▶ Help you to know what *NOT* to do.



# This Course Will NOT...

- ▶ Attempt to be an all out comprehensive presentation about every little thing that is found within a particular subject.
  - ▶ Discuss problems that have little to no chance whatsoever of being on the test.
  - ▶ Discuss real-life problems.
  - ▶ Focus on the small stuff or topics not related to the exam. Period.
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# Coming Up....

- ▶ Effective test taking tips and strategies.

