## Utility Industry Math Boot Camp for the CAST Battery

The Construction And Skilled Trades Selection System, CAST, is a battery of skill and ability tests designed and validated by the Edison Electric Institute, EEI, to aid in the selection of candidates across a wide variety of construction and skilled trades occupations. This test battery measures skills and abilities that are critical for effective job performance. There are four CAST tests: Graphic Arithmetic, Mathematical Usage, Mechanical Concepts, and Reading for Comprehension.

The Utility Industry Math Boot Camp for the CAST Battery was designed to help participants prepare for the CAST tests. Both Mathematics and Mechanical Concepts topics found in the CAST tests are specifically and thoroughly covered during the Utility Industry Math Boot Camp for the CAST Battery; preparation for the Reading for Comprehension test of the CAST happens indirectly: participants must do a considerable amount of reading-for-problem-solving on their own and in teams. Upon completion of the Utility Industry Math Boot Camp for the CAST Battery, hard-working, serious-minded individuals should expect to achieve high scores on the CAST tests. The recommended pre-requisite for the Utility Industry Math Boot Camp for the CAST Battery is prior attendance at a Day of Remediation-Math.

## Utility Industry Math Boot Camp for the CAST Battery

The Utility Industry Math Boot Camp for the CAST Battery is available for a nominal annual licensing fee<sup>\*</sup> and includes the following:

## 1. Student Materials

- Course Syllabus
- Mathematics Manual (334 pages)
- How to "Read" a Ruler Workbook (48 pages)
- How to "Read" and Use an Architect's Scale Manual (52 pages)
- Introduction to Spatial Reasoning Workbook (100 pages) NEW!

## 2. Instructor Materials

- Instructor's Guide (67 pages)
  - (Learning Objectives, Daily Lesson Plans and Materials Checklists)
- PowerPoint Presentations (synchronized with the Instructor's Guide and Mathematics Manual)
  - √ Boot Camp Overview/Train-the-Instructor
  - $\sqrt{}$  Orientation Session
  - $\sqrt{\text{Course Lessons (Days } 1-5)}$
- Miscellaneous Assessments with Answer Keys, Scoring Guides, and Gradebook
  - √ Pre- and Post-Course Skills Assessments
  - √ Ouizzes:
    - o Ruler
    - o Times Tables
    - o Perfect Squares and Square Roots
    - o Common Fractions Expressed as Decimals and Percents
    - Metric Prefixes
    - o Properties of Exponents **NEW!**
    - o Formulæ
    - Mechanical Comprehension
- CAST Practice Tests
  - √ Graphic Arithmetic
  - √ Mathematical Usage
- Student Agreement
- Student Satisfaction Questionnaire
- Certificate of Completion templates
- 3. Technical Assistance and Support from Helicon, Inc.

For more information about the Utility Industry Math Boot Camp for the CAST Battery

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\*All revenues are used to support Helicon, Inc.'s classroom activities in New York City.