

# CIVIL ENGINEERING TECHNOLOGY DESIGN AND TESTING (AEC)



**1** year (12 months)  
**2** Semesters

## INTENSIVE TRACK

### About Program

There is a high demand on the job market for skilled professionals in the areas of drafting, design and material testing. Matrix College's AEC in Civil Engineering Technology-Design and Testing is aligned to meet this market requirement and prepare Civil Engineering technicians who are able to design pieces of building structures, supervise sites and test construction materials thereby becoming useful assistants to Civil Engineers, Project Managers and Architects.



## Key Courses

### Testing of Materials

- > Introduction to the Profession
- > Aggregates
- > Bituminous Mix
- > Concrete
- > Analysis of Soils
- > Inspection of Construction Works

### Design and Drafting

- > Statics and Resistance of Materials
- > Structural Reactions
- > Analysis of C. E. Projects
- > Drafting with Specialized Software I
- > Drafting with Specialized Software II



## Possible career opportunities

- > Civil Engineering Technician
- > Structure Design Technician
- > Residential, Commercial and Industrial Drafter
- > Construction Technician
- > Road and Highway Technician
- > Construction Materials Technician
- > Construction Site and Building Inspector
- > Soil Technologist – Civil Engineering
- > Construction Specification Writer
- > Construction Site Supervisor



## Prerequisites

- > Applicant must be at least 18 years old
- > Bachelor's Degree, diploma in civil engineering or architecture with minimum 13 years of formal education
- > Fluency in English with an overall band score of 6.0 band and above with nothing less than 6.0 band in any individual module | 6.5 band nothing less than 5.5 band in any one individual module



### DELIVERY METHOD

Instructor led classroom  
Fabrication and testing of materials using a lab  
Visit to construction sites



### SALARY RANGE

\$ 36,000 - \$72,000  
per annum

### MATRIX COLLEGE OF MANAGEMENT TECHNOLOGY AND HEALTHCARE.

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