Want to get ahead? Get registered!

As an engineering graduate, you have cleared the first hurdle – your degree or diploma. However, that is only the beginning. As you know, the long road to ECSA registration still lies ahead – but help is at hand!

TO BECOME REGISTERED, ECSA requires that you move from the novice position of observing projects to assisting, contributing and eventually taking full responsibility. Migration to the level of responsibility is often not easy as those more experienced in the workplace rarely have the time to show you the ropes.

The Candidate Academy is there to help you through this challenging but vital part of your development, through its hands-on courses which show you how to tackle different types of projects or processes, allowing you to return to the workplace and make a meaningful contribution.

By selecting one or more courses that complement what you are doing in the workplace, you will accelerate your learning and progression towards competence and ultimately professional registration.

Since the launch of the Candidate Academy earlier this year, engineering graduates working towards their professional registration have been streaming in to the courses, designed to help them learn what they need to know on the job. The latest courses – one on transport management and one on sewer design – are now on offer.

BASIC PRINCIPLES OF TRANSPORTATION
The Academy’s course on Basic Principles of Transportation takes two days and covers:
- the principles of transport engineering, focusing on traffic studies and the impact of increased traffic volumes on road networks
- the basics of lane and access capacity
- road network classification
- implications and process of expanding road networks

Using exciting and practical hands-on methods, experienced engineer Awie van Zyl will take participants through the paces of this important discipline.

INTRODUCTION TO SEWER DESIGN
Another course just added to the Academy’s offering is the four-day Introduction to Sewer Design, which will help you grasp the basics of designing sewer collection systems in residential areas, as well as outfall sewers. The areas it covers also include:
- Introduction to on-site sanitation systems
- Design guidelines for waterborne sanitation options
- Hydraulic design
- Sewer pipe materials
- Construction considerations

Anyone registered with ECSA as candidate engineer, technologist or technician will gain hugely from this training, especially candidates who are involved in transportation engineering and traffic studies, or who are going to be.

Next course dates: Basic Principles of Transportation (See Table 1).

Course: Basic Principles of Transportation
Table 1
Date: 25-26 August 2010
Venue: SAICE National Office, Midrand

Course: Introduction to Sewer Design
Table 2
Date: 1-4 November 2010
Venue: SAICE National Office, Midrand
Your career in engineering is just beginning, and you need to focus on the next step: getting that ECSA registration. Aimless plodding won't make it happen. You need to get organised, plan your goals, and get your achievements down in black and white.

Get the Journal Program and Portfolio of Evidence files from the Candidate Academy and put your career on track.

What you get:
- Portfolio of evidence files (Master File and Period File) which have the notes and forms to track your achievements. They are divided into sections to help you stay organised, and to safely store the documents and certificates you will later submit to ECSA.
- Cutting edge software – designed by top engineering educators for candidates and their mentors will allow you to:
  - Choose your goals and outcomes for the year
  - Plan what training you want to do
  - Record and review your progress
  - Manage your assessment reports
  - Generate reports and graphs

This information is vital for reviews with your mentor, for signing off and for filing in your Portfolio of Evidence files – which will finally be used for your professional registration, to open doors to your dream career!

Dawn Hermanus (SAICE)
011 805 5947
dhermanus@saice.org.za

Brenda Lacey-Smith (CESA)
011 463 2022
brenda@cesa.co.za

Comments from delegates who have been on the Basic Contract Administration and Quality Assurance Course so far:
- "I have learned so much in three days, it was definitely worthwhile. Theuns knows his field very well and has a very hands-on approach. I would definitely recommend this course!"
- "An excellent course."
- "A very good course."

Comments from delegates who have been on the Basic Pressure Pipeline Design Course so far:
- "Excellent."
- "It was a good course and refreshed my memory on some subjects that I have always dared to attempt like water hammer and pump design."
- "A lot of information in a short period of time. Practical examples helped tremendously."

The Road to Registration – for Candidates

This course will help you understand the range of competencies that must be developed for professional registration and will assist you with planning your experience and developing a portfolio of evidence.

<table>
<thead>
<tr>
<th>Date</th>
<th>Venue</th>
<th>Time</th>
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<tbody>
<tr>
<td>3 September 2010</td>
<td>East London</td>
<td>Venue to be advised</td>
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<tr>
<td>8 September 2010</td>
<td>Johannesburg</td>
<td>CESA Training Venue</td>
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</table>

The Road to Registration - for Mentors, Supervisors and HR

This course covers the best ways to transfer skills, prepare a workplace training plan, develop a portfolio of evidence, and assess professional experience and personal development.

Date to be announced

Basic Contract Administration and Quality Control

This course helps to understand the role of all players in civil projects, the supply chain, and the procurement and tendering process.

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<thead>
<tr>
<th>Date</th>
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<th>Time</th>
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<tbody>
<tr>
<td>23-25 August 2010</td>
<td>Midrand</td>
<td>SAICE National Office</td>
</tr>
<tr>
<td>01-03 November 2010</td>
<td>East London</td>
<td>Venue to be advised</td>
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Basic Pressure Pipeline Design

The course covers basic pressure pipeline design and first principles in the selection of appropriate materials and fittings, how to read and interpret pump duty curves, and the construction process.

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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>20-21 September 2010</td>
<td>Durban</td>
<td>Venue to be advised</td>
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<tr>
<td>11-12 October 2010</td>
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Pavement Rehabilitation and Maintenance

This course includes the assessment of road conditions, repair options, materials, equipment, drainage options and maintenance.

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<tbody>
<tr>
<td>13-16 September 2010</td>
<td>Kimberley</td>
<td>Venue to be advised</td>
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<tr>
<td>04-07 October 2010</td>
<td>East London</td>
<td>Venue to be advised</td>
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<tr>
<td>18-21 October 2010</td>
<td>Midrand</td>
<td>SAICE National Office</td>
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<tr>
<td>08-11 November 2010</td>
<td>Bloemfontein</td>
<td>Venue to be advised</td>
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Basic Principles of Transportation

This course covers the principles of transport engineering with specific reference to traffic studies and the impact of increased traffic volumes on road networks.

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<tr>
<th>Date</th>
<th>Venue</th>
<th>Time</th>
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<tr>
<td>25-26 August 2010</td>
<td>Midrand</td>
<td>SAICE National Office</td>
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Introduction to Sewer Design

This course will help graduates to grasp the fundamentals of designing sewer collection systems as well as outfall sewers.

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<thead>
<tr>
<th>Date</th>
<th>Venue</th>
<th>Time</th>
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<tbody>
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- “A lot of information in a short period of time. Practical examples helped tremendously.”

Get organised! Get registered!

The Candidate Academy Journal Program on CD and Portfolio of Evidence files will put your professional development on track – so you become the best you can be.