Where the engineering jobs are and how an EIT course may help

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Welcome to this webinar

Please configure your audio by going to the TOOLS menu, then AUDIO, then AUDIO SETUP WIZARD – and follow the steps 😊

➢ How to ask questions
  ▪ Text box
  ▪ Microphone

This 30 minute session will commence at
11:00am WST Thursday 15th December
3:00am GMT/UTC Thursday 15th December
What we’ll cover

➤ Global Engineering Trends
  ▪ Skills in demand in Australia, South Africa, India, Asia, USA & Canada, United Kingdom & Ireland and New Zealand
  ▪ Other useful engineering skills

➤ EIT courses to help you in your career
  ▪ Advanced Diplomas
  ▪ Professional Certificates of Competency
  ▪ Masters program

➤ How eLearning works
  ▪ Virtual classroom
  ▪ Assignments and marks
  ▪ Course structure
Global Engineering Trends

Skills in demand in Australia

- Mining
- Oil & Gas
- Utilities (power, water etc)
Global Engineering Trends

- Skills in demand in South Africa
  - Mining
  - Utilities – Electrical / Water
  - Manufacturing
Global Engineering Trends

- **Skills in demand in Asia**
  - Utilities – Electricity / Water / Gas
  - Manufacturing
Global Engineering Trends

- Skills in demand in the USA & Canada
  - Utilities – Water / Electricity / Gas
  - Manufacturing
  - Mining
Global Engineering Trends

- Skills in demand in the United Kingdom & Ireland
  - Manufacturing
  - Utilities – Water and Electricity
Global Engineering Trends

- Skills in demand in New Zealand
  - Utilities – Electricity / Water / Gas
  - Manufacturing
  - Mining and Oil and Gas
Other Useful Engineering Skills

- Skills that are useful in a variety of engineering roles
  - Project management
  - Systems management and maintenance
  - Financial management
A few further comments on skills

- Change in technology is accelerating
- Business know-how critical
- Communications skills essential
- Computer literacy a given
- Foundation skills are useful – electrical / mechanical / instrumentation / physics
- Project & Cost Management
- Lifelong learning
- Informal learning – 70% of skill acquisition
EIT Courses

- Advanced Diplomas
- Professional Certificates of Competency
- Masters program
- Preparation Course
EIT Courses

- Advanced Diplomas
  - Recognised by many professional bodies (TAC, ECSA, ASQA, IEEE, InstMC UK)
  - Expert instructors on each topic
  - 18 months long, require 6-10 hours per week (including live webinar)
  - Advanced Diplomas in Mechanical, Electrical, Data Communications, Industrial Automation, more

[Logos and icons]
EIT Courses

- Advanced Diplomas cont…
  - Case study – current student
  - Completed Advanced Diploma of Industrial Automation in 2010, and about to complete Advanced Diploma of Applied Electrical Engineering
  - Combined with his existing experience, now in project management and supervisory roles
EIT Courses

- Professional Certificates of Competency
  - 3 month short courses to enhance your existing knowledge
  - In areas such as Electrical, Electronic, Industrial Automation, Civil, Data Communications, Mechanical and Engineering Management
  - One expert instructor for the whole course
EIT Courses

- Masters program
  - Starting in March 2012 in Business and Project Management in Industrial Automation
  - Developed by EIT and APIC and fully accredited
  - 24 months
  - Great for gaining recognisable skills in project management, focusing on industrial automation
EIT Courses

- Preparation course
  - Refresh your engineering maths, physics and chemistry knowledge
  - 4 month course

\[
x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}
\]

\[
(x + a)^n = \sum_{k=0}^{n} \binom{n}{k} x^k a^{n-k}
\]

\[
A = \pi r^2
\]
How eLearning works

- Virtual classroom
- Assignments and marks
- Course structure
- Systems & procedures
Virtual Classroom

How the virtual classroom works

- Presentation format
- Asking questions
- Tools available to instructors and students
- Interactive discussions
Assignments and Marks

- Assignments for each module
  - To ensure understanding of the topic
  - To test your ability to apply the concepts
  - Attendance requirements
  - Pass marks
Course Structure

- Advanced Diplomas
  - 72 topics over 18 months
  - Generally 15 modules per course but each course is different
  - One webinar per week
  - Different instructors for each module depending on their area of expertise
Course Structure

- Professional Certificate of Competency
  - 3 month course
  - 12 modules per course with 2 modules covered per webinar
  - One expert instructor for the duration of the course
Course Structure

- Other courses
  - Masters
  - ESI
  - Preparation course
Systems and Procedures

What you need

- An Internet connection, speakers and microphone
- Access to our webinar software is provided (Elluminate)
- Assignments, presentations and other course information is delivered through our learning management system, Moodle
- 6 – 10 hours a week for study, assignments and live webinars (depending on the course)
Systems and Procedures

➢ Enrolment process
  ▪ Submit a course enquiry regarding the course(s) you’re interested in
  ▪ Fill out enrolment forms part one and two (including availability for live webinars)
  ▪ Once approved, confirmation is sent out
  ▪ Webinar times sent on course commencement date and further instructions

➢ During the course
  ▪ Dedicated course coordinator
  ▪ Expert instructor
Is e-learning for you?

- Obtaining your recording of this session
- Getting more information about courses:
  ric.harrison@eit.edu.au
  enquiries@eit.edu.au