

WESTERN SYDNEY UNIVERSITY



MENTOR-CSE

An Introduction into the Building Industry for Graduate Civil and Structural Engineers

Introduction

Starting a new job in a fast paced construction industry can present many challenges for fresh or even experienced candidates. Years ago, companies used to provide formal training courses and there was a recognition that engineers needed time to learn the skills required to relate theory to everyday practical life. Life was easier. Today, it is common practice for engineers to have to learn “on the job”. It is therefore important that the graduate finds another way to learn those skills. This course is aimed at assisting young civil and structural engineers to better integrate themselves into working life, thus bridging the gap between formal training and the industry.

Mentor CSE has been created by Charles Rickard, a respected and widely known civil and structural engineer, in conjunction with the Centre for Infrastructure Engineering. Its purpose is to provide engineering students and postgraduates with an accelerated means of becoming job ready, competent and valuable to employers and clients.



Working with Minesco on the Victorian Comprehensive Cancer Centre



New SCG North Stand: The external façade designed by Rickard Engineering for Townsend Group

Course Outline

- Unit 1:** Assessment of Fundamental Issues
- Unit 2:** Key Areas of Design
- Unit 3:** Impact of Temperature, Shrinkage & Soil Type
- Unit 4:** Identify the Priorities in Design
- Unit 5:** Advanced Analysis
- Unit 6:** Working in the Construction Industry
- Unit 7:** What We Have Learnt

About the Author - Charles Rickard

Charles graduated from Surrey University, UK with a Master of Science in Structural Engineering in 1975, having completed a Bachelor of science in Civil Engineering. He then joined Taylor Woodrow Group, where he completed a formal 3 year training course. By 1982 he joined the White Young Consulting Group as a London Associate, where his major responsibility was the engineering design and management of construction for the \$100 million town centre development in Basildon, UK; as well as a 3 month stint in Qatar designing a new palace for the Emir.

In 1984, Charles moved to Australia to set up Rickard and Partners Pty Ltd. Over a period of 22 years, the company has offered civil, structural, façade and building diagnostic consultancy services utilising the very latest in design and drafting computer technology.

Charles was asked to be Chairman of the Multi-disciplinary Committee of the Institution of Engineers Australia, providing recommendations to the NSW Government on the Standards of Certification in the Building Industry Today. He was technical secretary in 1999 to the National Precast Concrete Association for the development of the Australian Code of Practice for GRC.

Charles Rickard is also considered an expert in the design of swimming pools, his expertise uniquely covering both fibreglass and concrete. He has designed over 20 Aquatic centres in Australia and Asia.

Charles now offers engineering training courses for graduate engineers, concentrating on all the issues you learn from experience rather than at university. For further background information refer to rickardengineering.com.

Registration

To register for MENTOR-CSE please visit:
www.westernsydney.edu.au/cie/mentor-cse

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