

Training Services

Centre
for SOFTWARE
Engineering



The Training Advantage

About 20 years ago, Alvin Toffler coined the term “Future Shock” to describe the impact of an ever increasing rate of change in technology and society. Within the software business, we know this phenomenon only too well.

We now talk about “Internet years” to try and capture the much shorter time-scales involved in projects – and not only in web based development either. Coupled with this, we must master new technologies that appear at an ever increasing pace.

All of this points to the growing need for high quality training, since we all need to keep on top of our jobs by:

- constantly improving our skills
- learning new ones, or
- seeking ways of doing our job better and more efficiently.

As our contribution to help you do that, we continually update and expand the range of training courses we provide to ensure that they remain relevant and topical.



Continuous Learning

Training ensures that the existing skill set of the individual and the company is maintained and enhanced. It is recognised that this training must be part of a continuous learning process. The depth and focus of such training will vary depending on an individual's circumstances. Therefore CSE has adopted a layered approach to its training services.

▲ **The first layer** is that of awareness and understanding. An awareness event is intended for decision-makers and influencers in determining a training programme or managing an improvement programme. It provides an understanding of the key features of a particular topic, an overview of recent advances in the area, its relevance to an organisation, and the benefits that can be achieved by its adoption. From attendance at an awareness event, you can determine whether the topic is appropriate, how extensively it might be used, what will be the extent of change to the organisation, and what is a reasonable timeframe for its adoption.

▲ **The second layer** is that of skill acquisition. This is intended for key management and technical personnel. It may be a detailed introduction, or a full practitioner course, or one or more workshops on a subject area.

▲ **The third layer** is that of support in the adoption of a new process or technology. This frequently takes the form of coaching sessions, either in a cluster of companies or in-house in a company. It may be supported by a prior evaluation and by mentoring during the pilot implementation of the process or technology.

▲ **The fourth layer** is that of implementation across the organisation following feedback and refinement after pilot experience. This represents the rollout phase in change management, where further skills acquisition and supporting processes need to be addressed.

Training Courses


Our portfolio of public courses run regularly throughout the year and are also available as in-house courses which can, if required, be specifically tailored for your needs. We cover a wide range of subject areas including:

- Quality & Software Process Improvement
- OO & Component-Based Development
- DSDM/RAD
- Project Management
- Requirements Engineering
- Business Strategy
- R&D Strategy
- People Issues


For details of specific courses and our current training schedule, please check out our website at: www.cse.dcu.ie/training.html

Cluster Programmes


Our cluster programmes provide an opportunity for companies to share and solve similar or complementary concerns under the guidance of trained mentors. These programmes take the form of a set of workshops run over an 8 -9 month period, along with individual mentoring for each company throughout. Currently we run two cluster programmes:



Small Company Action Training and Enabling (SCATE) is specifically designed to help small organisations improve their management of software development. The programme is based on the CMM® model, but would be suitable for an organisation wishing to improve their software development approach regardless of which framework is used.



The Improvement for Small Companies Programme uses ISO9001:2000 as its framework to assist companies develop an organisation-wide quality system and is equally successful whether or not the participating companies actually intend applying for ISO Certification.



The SPI - the easy way programme has been designed to help companies through their first improvement project. This is done in conjunction with a Mentor, so there is no need to feel isolated or uncertain at any point. An assessment is carried out, using the SPICE model, to ensure that the project, selected and undertaken within the programme, will meet the business needs of the organisation.

Graduate Training Programme

This programme is aimed at recent graduates with, ideally, 1-2 years of experience working in industry and is designed to round off undergraduate skills already gained. The programme emphasises 'real-world' issues, and material not generally covered, or appropriate, within normal undergraduate courses, but which is essential for effective good practice in employment as a software developer.

Software Project Management Training Programme

This programme is aimed at those who have responsibility for a software project, or who may have in the future. It will also be of interest to Project Managers who require an in-depth review of the discipline.

promoting better software

CSE Profile

The Centre for Software Engineering was established in 1991. It is the national focal point and support service for the software development community within Ireland - helping it to improve its quality and productivity and implement best practice.

- We provide a varied and targeted range of **training** covering a range of software engineering topics
- Our **consultancy** services are aimed at complementing our training to provide more specific support to all types of software developers
- We also carry out product, process and technology **evaluations** for companies
- We organise a major **software conference** each year
- We provide a useful **information** service through our website and extensive on-site library
- Finally, by being involved in many European projects and other **international activities** we help to disseminate new ideas and best practice in software development

For More Information

If you would like to know more about any of our services please contact us at:

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