

# PUBLIC TRAINING SCHEDULE 2008



Software Improvements has both research and practical experience in applying the concepts of Model Driven Development and Aspect Oriented Thinking. Software Improvements is now pleased to offer training in these areas and Ada. This training is designed to enable others to realise the substantial benefits that result from applying these sophisticated techniques.

## COURSE OVERVIEWS

### ASPECT ORIENTED THINKING

1 DAY

A 1-day introduction to Aspect-Oriented Thinking (AOT) covering its relationship to the process of software systems development, the importance of separation of concerns in complex multi-disciplinary developments, and how to “weave” aspects to form specifications and implementations of systems.

**Audience** - The following roles where they are involved in the development and operation of large-scale software-intensive systems: Lead Analyst/Designer/Architect; Team Leader; Project Engineer; Project Manager; Business Analyst/Customer; Chief Information Officer

### MODEL DRIVEN DEVELOPMENT (MDD)

3 DAYS

In this 3-day course, various techniques for Model Driven Development (MDD) are introduced and compared. Emphasis is given to the translational method and the efficacy of this compared to elaborative methods. The different treatments of architecture and design are explained in conjunction with the various methods

**Audience** - Anyone including programmers/ developers who want to become involved in the analysis and design processes and who wish to understand more clearly the essential steps in the progression from a requirements document to a design specification using an object-oriented approach.

### MODEL DRIVEN DEVELOPMENT (MDD) USING STRUCTURED TECHNIQUES

3 DAYS

This MDD course is very practically-oriented and will help students not only in learning the basic principles and techniques of non-real-time and real-time analysis and design but also how to apply these principles and techniques for the purpose of producing an understandable platform independent model of requirements from a set of (perhaps) vague and unclear needs/requirements.

**Audience** - Anyone including programmers/developers who want to become involved in the analysis and design processes and who wish to understand more clearly the essential steps in the progression from a requirements document to a design specification using a structured approach.

### MODEL DRIVEN DEVELOPMENT (MDD) – TRANSLATIONAL DEVELOPMENT

1 DAY

The course covers the modelling process, model verification and compilation, and includes practical demonstrations of the method. The place of the method in the Agile software development movement is highlighted.

**Audience** – Software Engineer; Business/Requirements Analyst/Architect; Designers; Project Managers; Chief Information Officers; Project Leaders

### SYSTEMS DEVELOPMENT USING ADA

2 DAYS

An introduction and overview of the Ada language (Ada83, Ada95, Ada05 available).

**Audience** - All software engineers who are planning to develop real-time, embedded and/or other high integrity applications.

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## DATES

### November

Monday 17 November 2008  
Tuesday 18 November 2008  
Friday 21 November 2008  
Monday 24 November 2008  
Thursday 27 November 2008

Aspect Oriented Thinking (1 day)  
Model Driven Development MDD (3 days)  
MDD – Translational Development (1 day)  
MDD using Structured Techniques (3 days)  
Systems Development using Ada (2 days)

### December

Monday 1 December 2008  
Tuesday 2 December 2008  
Friday 5 December 2008  
Monday 8 December 2008  
Thursday 11 December 2008

Aspect Oriented Thinking (1 day)  
Model Driven Development MDD (3 days)  
MDD – Translational Development (1 day)  
MDD using Structured Techniques (3 days)  
Systems Development using Ada (2 days)

## LOCATION

Canberra

## COST

AU\$660.00 (inc GST) per person, per day

## THE PRESENTERS



**Dr Clive Boughton, PhD** possesses over twenty-five years of practical experience in varying roles as a scientist, engineer, software developer, consultant and manager. He has vast experience across commercial, defence and scientific software projects including native and embedded applications using contemporary techniques, languages and management methods. In 2000, Clive became a Senior Lecturer at the ANU where he has implemented an IE Aust and ACS accredited degree in Software Engineering, an extension Masters program in Software Engineering, and set up a group to research software translational development and architecture.



**Dr Shayne Flint, PhD** has had a career in Electronic and IT engineering spanning nearly 30 years. He has industry experience in all aspects of Software Engineering with a particular focus on development and operation of large scale, software-intensive systems. Shayne has provided training and consulting services to a large number of organisations including many in the Defence segment, and holds a continuing appointment as lecturer in the ANU Department of Computer Science. He is both author and co-author of a number of publications and presentations, and an active member of high profile computer and engineering associations.

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## HOW TO REGISTER

To register for one of our training courses or to find out more information about these courses, please complete the following and fax to +61-2-62732082 or email [info@softimp.com.au](mailto:info@softimp.com.au).

**A tax invoice will be issued with payment options. Payment is required prior to day of training.**

<b>NAME</b>	
<b>ORGANISATION</b>	
<b>ADDRESS</b>	
<b>PHONE</b>	
<b>EMAIL</b>	

## I WOULD LIKE TO REGISTER FOR:

- |   |                           |
|---|---------------------------|
| <input type="checkbox"/> Aspect Oriented Thinking (1 day)         | Monday 17 November 2008   |
| <input type="checkbox"/> Model Driven Development MDD (3 days)    | Tuesday 18 November 2008  |
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## CONTACT DETAILS

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