



## OpenFOAM®: Two-Day Advanced course

24<sup>th</sup> and 25<sup>th</sup> of August 2017

72 Boyd St, Dandenong North, VIC 3175, Australia

### Description of the course

Participants in the course will learn the layout of the OpenFOAM library, how to copy and compile a solver. In addition, introduction to C++ programming language, creation of the new turbulence model as a part of the existing OpenFOAM library with curvature correction. Lastly, the ability to read the OpenFOAM library without fear, removing the FUD (fear, uncertainty and doubt) that grips most new users.

The methodology employed consists of a series of lectures that provide a general understanding of OpenFOAM topics followed by hands-on work. This training focuses on the OpenFOAM Foundation version of OpenFOAM but can be applied to other forks.

Participants will be able to customise top level solvers in OpenFOAM after this training course.

### Day 1

- Introduction,
- C++ introduction,
- OpenFOAM library layout,
- Compilation of OpenFOAM solvers and utilities,
- Hand-on examples.

### Day 2

- C++ classes and inheritance,
- Creating a new turbulence model, programming, compiling and running,
- Boundary condition code walk through,
- Hand-on examples.

Note: The above course outline is a guide only and every attempt will be made to adjust the course content to suit the needs of attendees were possible.

A hard copy of the training notes will be provided along with workshop files from the course. For hands-on examples, attendees are required to bring their own laptop (PC).

It is expected that the attendees have completed the OpenFOAM Introductory course or have some experience using OpenFOAM.

### About Applied CCM

Applied CCM Pty Ltd was founded in 2011 by Dr Darrin Stephens to provide support, development and training for new and existing users to the field of Computational Continuum Mechanics (OpenFOAM and Pointwise). Find out more about Applied CCM at <http://www.appliedccm.com.au>

*This offering is not approved or endorsed by ESI-Group, the producer of the OpenFOAM® software and owner of the OPENFOAM® trade mark.*

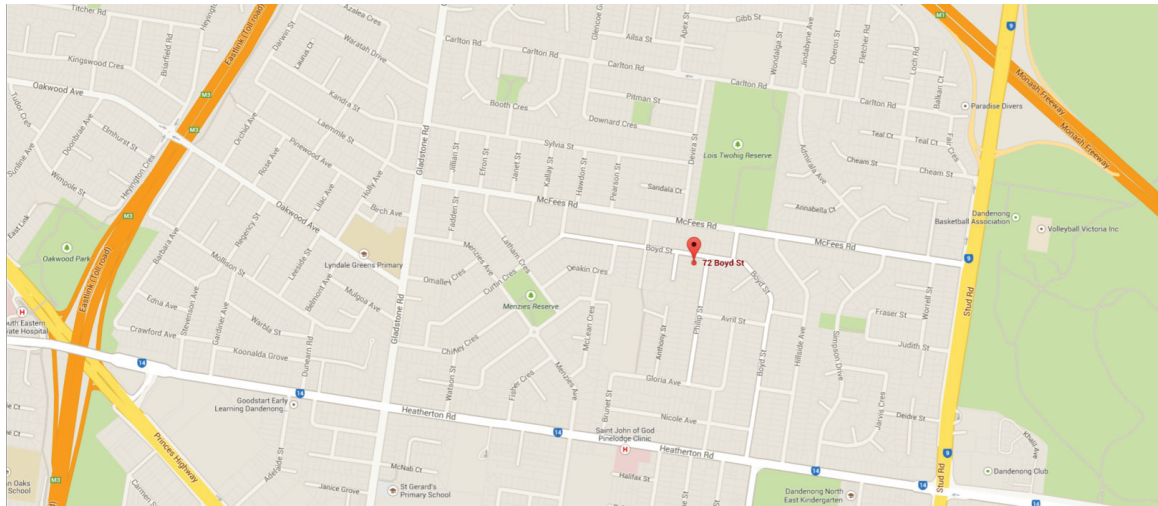
**Price and Registration details:**

- Industry: \$1320 inc GST per person.
- Academic: \$880 inc GST per person.
- Student: \$660 inc GST per person.
- Maximum number of attendees: 4
- Lunch and coffee breaks are included.

**Location:**

Applied CCM Office

72 Boyd St, Dandenong North, VIC 3175, Australia



More information about these courses may be found at <http://www.appliedccm.com.au>.

Registrations may be done by e-mail to Darrin Stephens ([d.stephens@appliedccm.com.au](mailto:d.stephens@appliedccm.com.au)), by Phone on +61 3 8376 6962 or via Online registration at <http://www.appliedccm.com.au/training>.