



Advanced Timber Flooring Technology Workshop

About the Advanced Timber Flooring Workshop

Who is this one day workshop for?

When you have been in the timber flooring industry for a while, seen the jobs that have gone well and those that have had problems it can become very clear that there was something missing in what you thought you knew about the product or the environment in which it was laid. Why did only certain boards shrink in this floor, why did the floor cup when moisture didn't seem to be the issue or why did the floor that was laid some years ago now swell and buckle?

Many of these types of question are not easy to answer and require a more in-depth understanding of the products being installed and their interaction between the fixing method and the environment. This course focuses on aspects that will not only help you to better understand timber and how it shrinks or swells, the course will also take you step by step through the analysis of some problem floors. However, to get to this stage it's necessary to have a solid understanding of how wood is made up, how moisture affects wood and most importantly the effect of relative humidity on floor performance. Terms such as equilibrium moisture content will be explained along with the difference between sorption and desorption. An understanding of these will help explain why low moisture content products often remain at relatively low moisture contents after installation. Floors in different climates will be considered along with external influences such as building leaks and slab moisture. The mechanism of how different board shapes come about in floors will be analysed and then, together, we will work through the analysis of some actual floor problems that have occurred.

This course is for those who through experience already have a good understanding of timber flooring, are concerned with providing floors that perform and want to know why certain issues appear with some floors and not others. It is also for those who want to be able to analyse what has happened to a timber floor when a problem occurs. If you fall into this category irrespective of whether you are a floor installer, merchant, manufacturer or sales person then this course is for you.

Registration – Fax back to us on 1300 36 1793

Name:
Company Name:
Phone: Mobile:
Address:
Email:

Please add any additional names on the next page.

Member of the ATFA (tick for yes)

Attendance

Dates and Locations* (tick location you are registering for)

17th August, Perth Home Ideas Centre 102 Railway Parade West Perth.

Times - Starts 9am Ends 4pm (lunch and breaks provided)

**Minimum numbers are required*

Workshop Fees

Member payment \$330.00pp (inc GST) Non Member payment \$440.00pp (inc GST)

I agree to the terms and conditions to enter this course and will pay by:

Cheque Credit Card (surcharges apply) Electronic Transfer

Signed: Date:

Payment is required at least 1 week prior to the event, please attach your payment with this application form. Methods of payment are:

- **Electronic bank deposit** to the ANZ Bank (acc name: Australian Timber Flooring Association Limited acc details: BSB 014 531 ACC 4841 08922).
Fax confirmation to 1300 36 1793
- **Credit card payments** can be made by **phoning ATFA on 1300 36 1693** or completing the section below.
A 2.5% surcharge applies to Visa, Mastercard and Amex.

Amount \$ _____ Name on card _____

Card No _____ / _____ / _____ / _____ Expiry ____ / ____ Sec _____

Signature _____

- **Cheques** should be made payable to:
 - **Australian Timber Flooring Association Limited** (please write in full)
- Posted to
- **ATFA 11 Oleander Ave Shelly Beach Qld 4551**

Refund Policy

Refunds will only be provided where a participant withdraws more than 7 days prior to the event being conducted or if the course is cancelled or postponed.

Additional Names

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Delivery

The lead instructor on the program will be David Hayward, a nationally renowned flooring expert and the ATFA Technical Manager, David possesses a Certificate IV Workplace Trainer and Assessor Qualification.

Course Outline

More specifically the course will cover:

Manufacturing processes

- Solid
- Engineered
- Moisture contents of flooring products
- Manufactured board stability

Wood structure and water – their intrinsic relationship

- Wood structure and its effect on drying and movement
- Water in wood and how it travels
- Moisture content and how it is determined by mass

Fibre saturation point, shrinkage and Equilibrium Moisture Content

- Shrinkage and the movement below FSP
- Humidity and the importance of RH to timber MC
- EMC and sorption – desorption processes

Manufactured board stability of solid and engineered flooring

- Board construction
- Influence of manufacturing practices

Environmental moisture effects on floor movement

- Why timber movement is important
- Macro and microclimates and houses
- How timber responds to RH changes

External moisture effects on floor movement

- Slab moisture and moisture barriers

Moisture measurement – Aspects to consider with timber and slab

Influence of fixing methods

- Adhesive strength
- Adhesive restraint compared to mechanical fixing

Boards shape changes resulting from moisture and manufacture

- Characteristics of solid and engineered floors
- Board shape changes from moisture uptake and loss

Analysing floor movement problems

- Where to start when looking at floor movement problem
 - How and what measurements to take
 - How to interpret the measurements
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