

Courses offered by Ted Stubbersfield



Learn from my four decades of experience with these CPD training sessions.

I can present in person or remotely and have experience in university lecturing and speaking at conferences.

Contact me to discuss your requirements -
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Topics and CPD Points

Each of the 11 topics listed below is eligible for one hour of CPD, according to the guidelines laid out by the Board of Architects Queensland and Engineers Australia. Several courses are also available on eClassroom. Refer to the last page for details of my full day courses.

Topic 1 - Timber Preservation

This presentation teaches, in the context of AS1601.1, how to achieve a long service life by combining natural wood durability with timber treatments.

Learning outcome - the participant will:

- ✓ Understand the limitations of timber preservation
- ✓ Understand the difference between *sapwood stabilization* and *preservation*
- ✓ Understand aspects of the Standards that cannot be achieved
- ✓ Recognize areas of the Standard that could be in error
- ✓ Be able to specify natural durability.

Time - 45 minutes plus question time.

Topic 2 - Hardwood Grading

This presentation explains stress grades in the context of AS2082 and case histories.

Learning outcome - the participant will:

- ✓ Understand the strengths of stress graded hardwood
- ✓ Understand what the grades of timber specified look like
- ✓ Understand the deficiencies of stress graded hardwood
- ✓ Identify and name and assess different natural features
- ✓ Think critically about performance criteria for products

Time - 40 minutes plus questions time.

Topic 3 - Timber Decks – Designing for Durability

Careful specification of commercial decking means that deck failure is now frequently related to the substructure design. This presentation teaches how to design to avoid common problems.

Learning outcome - the participant will:

- ✓ Recognise the difference between a domestic and a commercial deck
- ✓ Recognise the importance of protecting the joist from fastener damage
- ✓ Recognise the importance of designing for set length decking, not lineal
- ✓ Learn how to design for set length decking
- ✓ Recognise the importance of stainless fasteners

Time - 55 minutes plus question time.

Topic 4 - Utilising small diameter hardwood

The Queensland Forests Agreements have seen the average log stem size and quality drop dramatically. This presentation teaches how to adjust expectations and work with the available resource.

Learning outcome - the participant will:

- ✓ Understand the significance of SE Qld Forests Agreement
- ✓ Understand how the available resource is changing
- ✓ Recognise heart in timber and understand its consequence
- ✓ Learn how to detail to accommodate heart in timber
- ✓ Examine cases of effective use of heart in timber

Time - 55 minutes plus question time.

Topic 5 - The Seven Deadly Sins of timber design

Successful external timber design required that many small points of detail be attended to. The same main problems keep occurring. This presentation highlights these and reinforces important points made in Topic 3 and 4.

Learning outcome - the participant will:

- ✓ Learn how to design to give a self-cleaning deck
- ✓ Understand the importance of joist width and screw patterns
- ✓ Understand the problems associated with 150x150
- ✓ Learn how to set hardwood posts in the ground
- ✓ Learn the pitfalls in specifying natural durability
- ✓ Learn how to design with heart in hardwood
- ✓ Learn the importance of not specifying “sleepers”

Time - 50 minutes plus question time.

[eClassroom link](#)

Topic 6 - Joints

Timber joints have been known for 7000 years but in the last century they have changed and improved dramatically. This presentation will look particularly at weather exposed joints.

Learning outcome - the participant will:

- ✓ Learn the difference between new and old joints
- ✓ Learn why joints must be durable
- ✓ Examine whether to use galvanized or stainless fasteners
- ✓ Examine different ways to engage with the ground
- ✓ Learn the correct use of nail plates and grips
- ✓ Learn good detailing in handrail connections
- ✓ Examine the use of shear rings and plates

Time - 50 minutes plus question time.

Topic 7 - Architectural Timber Battens

While timber battens can look very good on contemporary buildings, they can be a maintenance nightmare. This presentation explains how to design to avoid this possibility.

Learning outcome - the participant will:

- ✓ Learn why would we use Architectural Timber Battens
- ✓ Understand the critical factors for internal battens
- ✓ Understand the critical factors for external battens
- ✓ Understand the importance of a weather shedding profile
- ✓ Understand the need for caution with recycled timber battens
- ✓ Learn correct fastener selection and support design

Time - 45 minutes plus question time.

[eClassroom link](#)

Topic 8 - Boardwalk Design

For a boardwalk to succeed many small points of detail must be attended to at the design stage.

Learning outcome - the participant will:

- ✓ Understand best practice for termination and piers
- ✓ Understand best practice with bearers and Joists
- ✓ Understand how timber requirements differ to house framing
- ✓ Control your gap
- ✓ Understand best practice with fasteners
- ✓ Detail your handrail for durability, and
- ✓ Understand the danger/importance of coatings

Time 50 minutes plus question time.

[eClassroom link](#)

Topic 9 - Timber 101

The basics of external timber are explored.

Learning outcome - the participant will:

- ✓ Know the resources you need
- ✓ Understand the difference between pine, cypress and hardwood
- ✓ Understand the importance of selecting the right species
- ✓ Understand the importance of selecting the right part of the tree.
- ✓ Understand the importance of preservation
- ✓ Understand why natural feature must be limited
- ✓ Understand why small points of detail are important

Time – 50 minutes plus question time.

Topic 10 - Handrails

The basics of handrails are explored.

Learning outcome - the participant will:

- ✓ Know the different types of handrails and balustrades
- ✓ Understand compliance issues driving the selection of handrails balustrades
- ✓ Understand timber quality and grades of timber
- ✓ Understand timber - standard sizes and how to use these in your design/detailing
- ✓ Understand timber preservation and detailing
- ✓ Understand methods of connection of structures to timber and things to be aware of
- ✓ Understand quality and design outcomes

Time - 45 minutes plus question time.

Topic 11 – Timber Bollards

The basics of timber bollards are explored.

Learning outcome - the participant will:

- ✓ Know the different between park, urban and esplanade bollards and their risks
- ✓ Understand successful and unsuccessful applications from case histories
- ✓ Understand the disadvantages of plastic bollards
- ✓ Understand the importance of good detailing
- ✓ Understand the shortcoming of IPWEA drawing GS-042 (issue F)
- ✓ Understand the appropriate timber specification
- ✓ Understand what maintenance is needed

Time - 45 minutes plus question time.

Topic 12 – Domestic Timber Decks

This presentation teaches how to design domestic decks to avoid common problems.

Learning outcome - the participant will:

- ✓ Know the resources needed
- ✓ Know the factors affecting deck specification
- ✓ Know the factors affecting joist specification
- ✓ Understand problems with alternate joist material
- ✓ Know best practice in deck construction
- ✓ Understand Finishing
- ✓ Know the requirements with decks close to the ground

Time – 1 hour

Full Day Courses

Topic 1 - Footbridge Fundamentals

This presentation will allow you to write a specification that avoids the common shortcuts made with kit bridges and explains how to use a combined specification and checklist for assessing submissions. The course looks at the checklist line by line and explains with many images why the item must be addressed before letting a tender. The course looks at several case histories of good and bad purchasing.

This presentation addresses:

- ✓ Basic performance requirements
- ✓ Vehicle loads
- ✓ Inundation
- ✓ Handrail Information
- ✓ Use of Timber
- ✓ Special notes about trusses
- ✓ Foundations

Topic 2 - Coastal Decks

This course will allow you to write a specification that avoids the common shortcuts and errors made with coastal decks and explains how to use a checklist for assessing submissions. The course looks at the checklist line by line and explains with many images why the item must be addressed before letting a tender. The course looks at several case histories of good and bad purchasing and also looks at the strengths and weaknesses of alternatives to traditional hardwoods.

This presentation addresses:

- ✓ Foundation Piers, Posts and Abutments
- ✓ Timber and Fasteners for Subframe
- ✓ Decking and Hardware
- ✓ Handrail
- ✓ Fire

Please contact me for a quote on these full day seminars as costs will vary depending on travel time, venue hire, catering etc.

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