

TEAC 2068 SECONDARY TIMBER TECHNOLOGY 1

Credit Points 10

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Description This subject provides an essential foundation in timber technologies specifically designed for future educators teaching the NSW Stage 4/5 (Years 7-10) Industrial Technology syllabuses. Students will engage in hands-on learning experiences that develop skills in the use of hand tools and basic power tools, alongside simple joinery techniques through various practical projects. The subject encompasses an exploration of timber properties, an introduction to basic project design, and a strong emphasis on safe work practices. By the end of the subject, students will be well-equipped with the technical skills necessary to effectively teach junior timber technology in secondary school settings.

School Education

Discipline Teacher Education: Secondary

Student Contribution Band

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 2 subject

Pre-requisite(s) BLDG 1007

Restrictions

Students must be enrolled in 1939 Bachelor of Education (Secondary).

Learning Outcomes

After successful completion of this subject, students will be able to:

1. Describe a range of common timber materials and their properties.
2. Apply safe and effective use of basic woodworking hand tools and equipment.
3. Apply fundamental joinery techniques in simple timber projects.
4. Implement foundational design processes for the planning and production of timber projects.
5. Apply safety regulations and risk management in a timber workshop setting.
6. Evaluate environmental and social impacts in the selection and use of different types of timber, and make recommendations for sustainable practices.

Subject Content

1. Introduction to manufactured boards, hardwoods, and softwoods: structure, properties, and types of timber relevant to Years 7-10 projects.
2. Safe use and maintenance of basic woodworking hand tools (e.g., chisels, planes, handsaws) and power tools (e.g., drills, sanders)
3. Fundamental timber joinery techniques e.g. butt, housing, and halving joints.
4. Basic timber machining processes: drilling, sanding, and simple shaping.
5. Introduction to wood finishing methods suitable for Years 7-10: sanding, staining, and basic clear finishes.
6. Project design and planning aligned with 7-10 syllabus: interpreting plans, material selection, and basic costing.

7. Workshop safety: regulations, personal protective equipment, and risk management for Years 7-10.

8. Sustainability in timber technology: material selection, waste reduction, and environmental considerations.

9. Introduction to computer-aided design for simple timber projects: basic 2D drawings and project visualization.