



Industrial Technology: Timber

General wood: Core module #1

Industrial Technology: Timber aims to provide students in Year 9 with practical and theoretical experiences in the study of industry, materials, processes, technology, the effects it has on our society and how this can be applied in the classroom.

	Year 9: Semester #1	Year: 2005 Class: General wood #1	Week	Course (0–50 hrs) Notes
	Outcomes	What students learn about. Term 1		Why have these units been developed? What happens in the units of work?
OH&S	Refer to outcomes 5.1.1, 5.1.2, 5.4.2	<ul style="list-style-type: none">• OH&S.• Safe use and handling of hand, power and machine tools.• Personal protective equipment.	1	<ul style="list-style-type: none">• This unit is specific to the <i>Industrial Technology: Timber</i> syllabus. Each semester of work is equivalent to 50 hours of classroom experience.• Each core module has been developed to allow students to work sequentially to develop greater knowledge.• Students are required to produce a compact disc storage unit and a report using appropriate software and hardware for this project.• The unit starts with the unit OH&S and risk management.• Design is the first focus through the use of design principles and processes, workplace communication (industrial terminology, design, materials, sketches, workshop drawings and material list).• Students will then be introduced in the workshop to a series of basic hand tool exercises, workshop drawing interpretations, marking out and portable power tools and machines including the biscuit jointer and drills.• Techniques and processes are gradually introduced to continue the development of the project including dowel joint and biscuit joint.• Finally the students are introduced to finishing techniques and skills to enhance the appearance and/or function of practical projects. <p>What benefits are there for the students? This unit will:</p> <ul style="list-style-type: none">• encourage students to learn through progressive and sequential modules to expand their knowledge and understanding of the timber industry• promote high levels of intellectual quality• provide a quality learning environment• generate significance by connecting students with the intellectual demands of their work.• provide students with the opportunity to investigate and apply problem solving.• encourage a sense of purpose, enjoyment, and personal satisfaction through the production of practical projects.• develop self sufficiency, resourcefulness, mature judgment and the capacity to work cooperatively and responsibly.
	Refer to outcomes 5.1.1, 5.1.2, 5.4.2	<ul style="list-style-type: none">• Workplace signage.• Elementary first aid procedures.• Workshop safety.• Safety test.	2	
CD storage unit	Refer to outcomes 5.4.1, 5.5.1 Refer to outcomes 5.7.1, 5.7.2	<ul style="list-style-type: none">• Industry terminology.• Procedure diary – factual recount.• Issues relating to the sustainability of resources in the timber industry.	3	
	Refer to outcomes 5.2.1, 5.5.1	<ul style="list-style-type: none">• Functional and aesthetic aspects of design.• Design principles and processes.	4	
	Refer to outcomes 5.3.1, 5.3.2, 5.4.2	<ul style="list-style-type: none">• Materials: – grain, strength, defects, colour.		
	Refer to outcomes 5.2.1, 5.5.1, 5.6.1	<ul style="list-style-type: none">• Material list.• Pictorial and working drawings.• Project costing.	5	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none">• Hand tools: marking out and cutting.• Hand tools: Holding devices and sawing.• Hand tools: Drilling and shaping.• Hand tools: Chiselling and planing.	6	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none">• Processes and techniques for preparing timber.• Measurement and sizing.	7	
Project report	Refer to outcomes 5.2.1, 5.5.1	Project report review <ul style="list-style-type: none">• Pictorial and working drawings• Computer software applications: – <i>Word</i> and <i>Excel</i>.• Project costing.• Procedure diary – factual recount.	8	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none">• Processes and techniques for finishing timber.• Portable power tools: sanding.	9	
	Refer to outcomes 5.4.1, 5.5.1,	<ul style="list-style-type: none">• Procedure diary – factual recount.• Report writing – evaluation.	10	



Industrial Technology: Timber

General wood: Core module #1

Industrial Technology: Timber aims to provide students in Year 9 with practical and theoretical experiences in the study of industry, materials, processes, technology, the effects it has on our society and how this can be applied in the classroom.

	Year 9: Semester #1	Year: 2005 Class: General wood #1	Week	Course (0–50 hrs) Notes
	Outcomes	What students learn about. Term 2		Why have these units been developed? What happens in the units of work
OH&S	Refer to outcomes 5.1.1, 5.1.2, 5.4.2	<ul style="list-style-type: none"> Safe use and handling hand, power and machine tools. Personal protective equipment. Elementary first aid procedures. 	1	<ul style="list-style-type: none"> This unit is specific to the <i>Industrial Technology: Timber</i> syllabus. Each semester of work is equivalent to 50 hours of classroom experience. Each core module has been developed to allow students to work sequentially to develop greater knowledge. Students are required to produce a trinket box and a report using appropriate software and hardware for this project. The unit starts with the unit OH&S and risk management. Design is the first focus through the use of design principles and processes, workplace communication (industrial terminology, design, materials, sketches, workshop drawings and material list). Students will then be introduced in the workshop to a series of basic hand tool exercises, workshop drawing interpretations, marking out and portable power tools and machines including the biscuit jointer and drills. Techniques and processes are gradually introduced to continue the development of the project including dowel joint and biscuit joint. Finally the students are introduced to finishing techniques and skills to enhance the appearance and/or function of practical projects. <p>What benefits are there for the students? This unit will:</p> <ul style="list-style-type: none"> encourage students to learn through progressive and sequential modules to expand their knowledge and understanding of the timber industry promote high levels of intellectual quality provide a quality learning environment generate significance by connecting students with the intellectual demands of their work. provide students with the opportunity to investigate and apply problem solving. encourage a sense of purpose, enjoyment, and personal satisfaction through the production of practical projects. develop self sufficiency, resourcefulness, mature judgment and the capacity to work cooperatively and responsibly.
Trinket box	Refer to outcomes 5.4.1, 5.5.1 Refer to outcomes 5.3.1, 5.3.2, 5.5.1	<ul style="list-style-type: none"> Industry terminology. Procedure diary – factual recount. The elements of the structure of trees and how a tree grows. 	2	
	Refer to outcomes 5.2.1, 5.5.1, 5.6.1 Refer to outcomes 5.7.2, 5.5.1	<ul style="list-style-type: none"> Functional and aesthetic aspects of design. Materials: <ul style="list-style-type: none"> – grain, strength, defects, colour. Industrial processes and production techniques. 	3	
	Refer to outcomes 5.4.1, 5.5.1	<ul style="list-style-type: none"> Material list. Pictorial and working drawings. Project costing. 	4	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Measurement and sizing. Processes and techniques for joining timber. Half yearly exam. Portable power tools: cutting. Portable power tools: drilling. 	5	
Project Report	Refer to outcomes 5.4.1, 5.5.1	<p>Project report review</p> <ul style="list-style-type: none"> Pictorial and working drawings. Computer software application: Word and Excel Project costing. Procedure diary – factual recount. 	6	
Trinket box	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Processes and techniques for finishing timber. Portable power tools: sanding. 	7	
	Additional content	<ul style="list-style-type: none"> The structure and properties of hardwoods and softwoods. 	8	
	Additional content	<ul style="list-style-type: none"> A range of techniques and skills to enhance the appearance and/or function of practical projects. 	9	
	Refer to outcomes 5.7.2, 5.5.1	<ul style="list-style-type: none"> Procedure diary – factual recount. Report writing – evaluation. A range of career paths in the timber industry. 	10	



Industrial Technology: Timber

General wood: Core module #2

Industrial Technology: Timber aims to provide students in Year 9 with practical and theoretical experiences in the study of industry, materials, processes, technology, the effects it has on our society and how this can be applied in the classroom.

	Year 9: Semester #2	Year: 2005 Class: General wood#2	Week	Course (50–100 hours) Notes
	Outcomes	What students learn about Term 3		Why have these units been developed? What happens in the units of work?
OH&S	Refer to outcomes 5.1.1, 5.1.2, 5.4.2	<ul style="list-style-type: none"> Risk management principles. Hazards in the work environment. Clean and hygienic work practices. 	1	<ul style="list-style-type: none"> This unit is specific to the <i>Industrial Technology: Timber</i> syllabus. Each semester of work is equivalent to 50 hours of classroom experience. Each core module has been developed to allow students to work sequentially to develop greater knowledge. Students are required to produce a <i>cheval mirror</i> and a report using appropriate software and hardware for this project. The unit starts with the unit OH&S and risk management. Design is the first focus through the use of design principles and processes, workplace communication (industrial terminology, design, materials, sketches, workshop drawings and material list). Students will then be introduced in the workshop to a series of basic hand tool exercises, workshop drawing interpretations, marking out and portable power tools and machines including the biscuit jointer and drills. Techniques and processes are gradually introduced to continue the development of the project including dowel joint and biscuit joint. Finally the students are introduced to finishing techniques and skills to enhance the appearance and/or function of practical projects. <p>What benefits are there for the students? This unit will:</p> <ul style="list-style-type: none"> encourage students to learn through progressive and sequential modules to expand their knowledge and understanding of the timber industry promote high levels of intellectual quality provide a quality learning environment generate significance by connecting students with the intellectual demands of their work. provide students with the opportunity to investigate and apply problem solving. encourage a sense of purpose, enjoyment, and personal satisfaction through the production of practical projects. develop self sufficiency, resourcefulness, mature judgment and the capacity to work cooperatively and responsibly.
Che val mirror	Refer to outcomes 5.4.1, 5.5.1, Refer to outcomes 5.2.1, 5.5.1, 5.6.1	<ul style="list-style-type: none"> Industry terminology. Design principles and processes. Factors affecting design: <ul style="list-style-type: none"> material selection, shaping, joining, finishing. 	2	
	Refer to outcomes 5.3.1, 5.3.2, 5.5.1	<ul style="list-style-type: none"> Suitability of timbers for specific purposes. 	3	
	Refer to outcomes 5.4.1, 5.5.1	<ul style="list-style-type: none"> Procedure diary – factual recount. 		
	Refer to outcomes 5.4.1, 5.5.1	<ul style="list-style-type: none"> Orthogonal drawing. Material list. Project costing. Joining methods and techniques. 	4	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Wood turning. 	5	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Measurement and sizing. 	6	
Project Report	Refer to outcomes 5.4.1, 5.5.1	<ul style="list-style-type: none"> Project report review Report writing. Orthogonal drawing. Computer software applications. Procedure diary – factual recount. 	7	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> The care and use of a range of hand and power tools. 	8	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Power and machine tools for sanding, drilling and turning. 	9	
	Refer to outcomes 5.5.1, 5.7.2	<ul style="list-style-type: none"> The relationship between careers and industries in the timber area. 	10	



Industrial Technology: Timber

General wood: Core module #2

Industrial Technology: Timber aims to provide students in Year 9 with practical experiences in the study of industry, materials, processes, technology, the effects it has on our society and how this can be applied in the classroom.

	Year 9: Semester #2	Year: 2005 Class: General wood #2	Week	Course (50–100 hours) Notes
	Outcomes	What students learn about Term 4		Why have these units been developed? What happens in the units of work?
Cheval mirror	Refer to outcomes 5.3.1, 5.3.2, 5.5.1	<ul style="list-style-type: none"> Timber seasoning and conversion. 	1	<ul style="list-style-type: none"> This unit is specific to the <i>Industrial Technology: Timber</i> syllabus. Each semester of work is equivalent to 50 hours of classroom experience. Each core module has been developed to allow students to work sequentially to develop greater knowledge. Students are required to produce a <i>cheval mirror</i> and a report using appropriate software and hardware for this project. The unit starts with the unit OH&S and risk management. Design is the first focus through the use of design principles and processes, workplace communication (industrial terminology, design, materials, sketches, workshop drawings and material list). Students will then be introduced in the workshop to a series of basic hand tool exercises, workshop drawing interpretations, marking out and portable power tools and machines including the biscuit jointer and drills. Techniques and processes are gradually introduced to continue the development of the project including dowel joint and biscuit joint. Finally the students are introduced to finishing techniques and skills to enhance the appearance and/or function of practical projects. <p>What benefits are there for the students? This unit will:</p> <ul style="list-style-type: none"> encourage students to learn through progressive and sequential modules to expand their knowledge and understanding of the timber industry promote high levels of intellectual quality provide a quality learning environment generate significance by connecting students with the intellectual demands of their work. provide students with the opportunity to investigate and apply problem solving. encourage a sense of purpose, enjoyment, and personal satisfaction through the production of practical projects. develop self sufficiency, resourcefulness, mature judgment and the capacity to work cooperatively and responsibly.
	Refer to outcomes 5.5.1, 5.7.2	<ul style="list-style-type: none"> Industrial techniques and processes. 	2	
	Refer to outcomes 5.3.1, 5.3.2, 5.5.1	<ul style="list-style-type: none"> The properties and working characteristics of timber: <ul style="list-style-type: none"> – hardwoods and softwoods. 	3	
	Refer to outcomes 5.7.1, 5.7.2	<ul style="list-style-type: none"> The effects of the timber industry on society and the environment. 	4	
	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Timber finishes and finishing. Yearly exam. 	5	
Project Report	Refer to outcomes 5.4.1, 5.5.1	<p>Project report review</p> <ul style="list-style-type: none"> Report writing. Orthogonal drawing. Computer software applications. Procedure diary – factual recount. 	6	
Cheval mirror	Refer to outcomes 5.2.2, 5.4.2, 5.5.1	<ul style="list-style-type: none"> Identify a range of timber finishes and their applications, including clear finishes, stains and paints. 	7	
	Additional content	<ul style="list-style-type: none"> Conversion and seasoning of timber. 	8	
	Additional content	<ul style="list-style-type: none"> A range of techniques and skills to enhance the appearance and/or function of practical projects. 	9	
	Refer to outcomes 5.4.1, 5.5.1	<ul style="list-style-type: none"> Procedure diary – factual recount. Report writing – evaluation. 	10	