

# FAIRFIELD COLLEGE



LEARNING AREA: Hard Materials Technology

Course: ENN200

YEAR: 2026

TEACHER: JDO

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11
<b>TERM 1</b>	<b>Compressed Air / Steam Engine Project</b>										
Dates	26 Jan-30 Jan	2 - 6 Feb	9-13 Feb	16-20 Feb	23-27 Feb	2 - 6 Mar	9-13 Mar	16-20 Mar	23-27 Mar	30 Mar-2 Apr	
Important Dates		Waitangi Day (Friday)								Easter (Friday)	
Overarching Learning Focus	Whanaungatanga	Course intro/ Health and Safety	Review technical drawings, BOM	Measure and mark-out stock	Hand-sawing and deburring material	Leveling body and cylinder	Marking hole positions accurately	Center punching and re-checking	Tapping M5 body threads	Reaming main shaft bore	
Assessment Due Dates & Checkpoints	US21911 Health and Safety (2 Credits, Level 2)					US29674 Fasteners (3 Credits, Level 2)					
<b>TERM 2</b>	<b>Compressed Air / Steam Engine Project</b>										
Dates	20 -24 Apr	27 Apr – 1 May	4 - 8 May	11 - 15 May	18 - 22 May	25 - 29 May	1 -5 Jun	8 -12 Jun	15 - 19 Jun	22 - 26 Jun	29 Jun - 3 Jul
Important Dates							King's Birthday				
Overarching Learning Focus	Milling body/cylinder steps	Lathe setup, facing flywheel	Turning flywheel outside diameter	Drilling flywheel shaft hole	<b>Learn Week</b>	Parting-off flywheel blank	Milling flywheel hub step	Drilling/tapping flywheel hub	Turning crank plate diameter	Drilling/parting the crank plate	Milling crank plate profile
Assessment Due Dates & Checkpoints	US2395 Hand Tools (2 Credits, Level 2)						US11661 Drilling (3 Credits, Level 2)				
<b>TERM 3</b>	<b>Compressed Air / Steam Engine Project</b>										
Dates	20 -24 Jul	27 Jul - 31 Jul	3 - 7 Aug	10 - 14 Aug	17 - 21 Aug	24 - 28 Aug	31 Aug -4 Sep	7 - 11 Sep	14 - 18 Sep	21 - 24 Sep	
Important Dates											
Overarching Learning Focus	Pressing shaft into plate	Turning piston to tolerance	Drilling/tapping the piston	Drilling the bearing thru-hole	Press-fitting piston assembly	Drilling/counters inking the base	Draw-filing and emery polishing	<b>Learn Week</b>	Final assembly, lubrication, testing	Project evaluation and documentation	
Assessment Due Dates & Checkpoints	US32053 + US32054 Machining (7 Credits + 7 Credits, Level 2)										
<b>TERM 4</b>	<b>Project Completion (Assessment Catch up)</b>										
Dates	12 -16 Oct	19 - 23 Oct	26 -30 Oct	2 - 6 Nov							
Important Dates			Labour Day (Monday)	Seniors Finish (Thursday)							