

**Course: MATHEMATICS IN TRADES PATHWAY
(MATHEMATICS STANDARD 1)**



2 Units for each of Preliminary and HSC Board Developed Course

Successful students of this pathway are able to achieve the learning outcomes of the Mathematics Standard 1 Stage 6 syllabus towards their Higher School Certificate credential.

Prerequisites: The Mathematics in Trades Pathway has been constructed on the assumption that students have studied the content and successfully achieved the outcomes of the Mathematics Years 7–10 Syllabus up to, and including, the content and outcomes of Stage 5.1.

Course Description:

In 2022 there will be a new Stage 6 Mathematics in Trades Pathway, developed by Apprenticeship Engagement Forum, available for students.

The students who study Mathematics in Trade could benefit themselves when preparing for an apprenticeship entry assessment, and improve their mathematics, numeracy and financial literacy skills.

Mathematics in Trades is designed to:

- repackage the learning outcomes in a practical and engaging way to support students who are pursuing an apprenticeship or traineeship as their first career option
- ensure students can achieve workplace numeracy requirements as required in the Australian Core Skills Framework
- ensure students achieve all Year 11 foundational outcomes of Mathematics Standard course and all outcomes of the Year 12 Mathematics Standard 1 course
- support students to ensure they are confident, capable and successful apprentices with proficient and practical numeracy skills.

Main Topics Covered:

Mathematics in Trades pathway requires students to complete a number of projects, which allow them to learn mathematics in practical terms that will benefit in their future careers.

| | Term Focus: | Examples of Projects |
|---|--------------------|--|
| Mathematics in Trades Year 11 course | 1. Driving Life | Cost of Car Purchase Give Me a Brake Road Safety |
| | 2. Work Life | Buy and Maintain a Work Vehicle Exploring Tools of Trade Get to Work on Time |
| | 3. Home Life | Diet and Health National Skill Shortage Saving for my first home Saving for my first small business |

| | Term Focus: | Examples of Projects |
|---|------------------------------|---|
| Mathematics in Trades Year 12 course | 1. Building Success | Scale Drawings Rates Right-Angled Triangles Graphs of |
| | 2. Demystifying Data | Investigating and Analysing Data |
| | 3. Small Business Management | Investment Depreciation and Loans |
| | 4. Break Even and Grow | Practical Situations Simultaneous Linear Equations |