



THE FUTURE IS  
YOURS TO BUILD

# D2C CAREERS UNDER CONSTRUCTION

CITB FUNDING GUIDELINES  
FOR 2024



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## **CITB**

CITB is a whole-of-industry led organisation that provides support to attract, train and retain South Australian building and construction workers by providing leadership in training and skills development.

Doorways2construction™ is CITB's premier secondary schools' program for the building and construction industry that include support for programs and initiatives to enhance career education and awareness of construction pathways for students from years 7 through to year 12, including Careers Under Construction delivered by Makers Empire.

## **Makers Empire**

Makers Empire is an education technology company that launched in Adelaide, Australia in 2014. Makers Empire has a mission to develop children's creative confidence, design thinking skills, and interest in STEM with purpose-built, fun, and easy-to-use 3D design software.

Makers Empire focuses on teaching design thinking and STEM based interactive learning through 3D design and problem-solving in primary schools. We have developed our programs by partnering with teachers, schools, education ministries, and university researchers and continue to evolve our software and professional learning to meet the needs of teachers, students, and curriculum.

## Program Overview

CITB and Makers Empire have partnered to develop a program that would help year 7 to 9 students learn about careers in the construction industry and form connections with industry partners.

Careers Under Construction introduces students to the building and construction industry through a design thinking problem-solving methodology. It uses 3D design to create solutions for a construction problem or challenge in a local context.

Through the program schools will be able to establish industry partnerships which not only ensures authenticity of the program, but also allows industry experts to share their knowledge and expertise with students while working on real-world projects.

Participating schools receive:

- 20 hours of Professional Development for 2 to 5 teachers per school.
- A 12-month subscription to Makers Empire School Plan which includes:
  - Construction Challenge Course
    - 3D design software
    - teacher dashboard
    - lesson plans
    - built-in assessment tools
    - online professional development
    - ongoing support, updates, and maintenance
- 3D printer, filament, and training

## Program Objectives

The objectives of the program are:

1. Meet criteria outlined in the Australian Curriculum: Technologies learning area for years 7-9.
2. Empower students to become adept problem solvers and creative designers capable of making a positive impact.
3. Raise awareness about the diverse career pathways within the construction industry.
4. Foster the professional growth of teachers in South Australia while showcasing the various opportunities available within the construction sector.

## Program Structure

### Beginning (early term 1):

Professional Learning (Start of term 1):

- Participating teachers complete a 2-day professional learning session.
- Focus areas: construction-based career education, industry connections, design thinking processes related to the construction industry, 3D design, 3D printer training, and project planning.
- Purpose: To support teachers implementing the Careers Under Construction program with their students.

### Middle (throughout semester):

Online Learning Modules (Weeks 1-3):

- Students begin using the Makers Empire in-app construction challenge course.
- Students explore jobs, career pathways in the construction industry through videos, quizzes, research projects, and design challenges.

Collaboration with Industry Experts (Weeks 3-4):

- Students engage with industry experts to understand a specific construction industry.
- Identify real-world problems in their school or local community.

Design Thinking and Prototyping (Weeks 5-15):

- Design thinking processes used to develop solutions.
- Students create 3D printed prototypes demonstrating their problem-solving approaches.
- Design thinking journal provided for documenting the process.

### End (End of Semester 1):

Student Showcase Event (end of semester):

- Students from each school prepare pitches and pre-record a video for the showcase event.
- Students attend the showcase event and present projects to a panel of industry judges in a shark-tank style event.

### Important dates:

What	When	Where
Pre-Program Briefing Session for delivering teachers	Late in Term 4	Online
Professional Learning Days (2)	Week 1 or 2 (TBC)	Lot 14, North Terrace, CBD
Showcase Event	TBC	TBC

## Funding Conditions

### Schools must

1. Provide a class/classes of year 7 to 9 students.
2. Nominate & release at least two teachers (up to 5) to participate and facilitate (including PD).
3. Participate in the showcase event either in person or virtually.
4. Support the collection of data before, during and after the program from teachers and students.
5. Ensure there are contingencies if nominated teachers depart prior or during the program.
6. Collaborate with the construction industry.
7. Complete the program.

## Funding

For up to 20 schools across South Australia CITB will provide Makers Empire the cost of the course for either:

- a. \$5,500 for schools that have not participated in the program or;
- b. \$4,000 for schools that have previously participated in the program.

CITB funding is conditional on schools completing the program.

If a school withdraws from the program at any point after delivery of the first teacher professional development session, CITB may seek to recover 50% of the program fees. In addition, school will be required to return the 3D printer.

## Application Criteria:

Applications will be assessed based on the following criteria:

1	Previous Performance:	Evaluation of the applicant's past performance and achievements.
2	Geographical Spread:	Consideration of the distribution of programs across the state to ensure equal access and opportunities for students in various regions.
3	Industry Partnerships and Engagement:	Assessment of the applicant's ability to establish and maintain strong partnerships with relevant industry stakeholders.
4	Commitment to Program Requirements:	Consideration of candidate's ability to adhere to the program's expectations, deadlines, and participation guidelines, showcasing their dedication to the initiative.
5	Demonstration of Construction Pathway Programs:	Consideration of involvement or experience in programs such as a year 10 construction program, a D2C Flexible Industry Pathway, an Advanced Skills Program, or any other related initiatives.
6	Industry Connections and Support:	Evaluation of the candidate's existing connections within the construction industry. Candidates will be assessed on their ability to demonstrate meaningful collaborations, partnerships, or support from industry professionals or organisations that can contribute to the success of the program.

## Application Process

### Preparation

Applicants to identify potential industry partners to support your programs.

### Submission (1 week) | 16 November to 22 November 2023

Applicant to complete the official application form available on [citb.org.au](http://citb.org.au) and submit it along with all required documents.

### Review (1 week) | 22 November to 6 December 2023

Applications will be reviewed, considering alignment with our application criteria and available budget.

### Approval | 1 December 2023 to 8 December 2023

Successful applicants will be notified of the funding approval and program acceptance. School details will be provided to Makers Empire who will confirm registration process and implement the program.