

Information Session: Technologies Graduate Certificates for Out-of-field Teachers



Acknowledgement of Country and Welcome



Introductions



STEM Education Unit

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Graduate Certificate of Digital Technologies

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Graduate Certificate of Digital Technologies

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Overview of the session

- About the initiative
- Structure of Certificates
- Eligibility requirements
- The EOI process



An Overview

- Financial Support to schools
- Schools support for teachers
- Travel Reimbursement



School Support
A Critical Success Factor

Principals' can opt-out here



- Course content
- Course requirements, including assessments
- Additional supports
- Expectations and communication

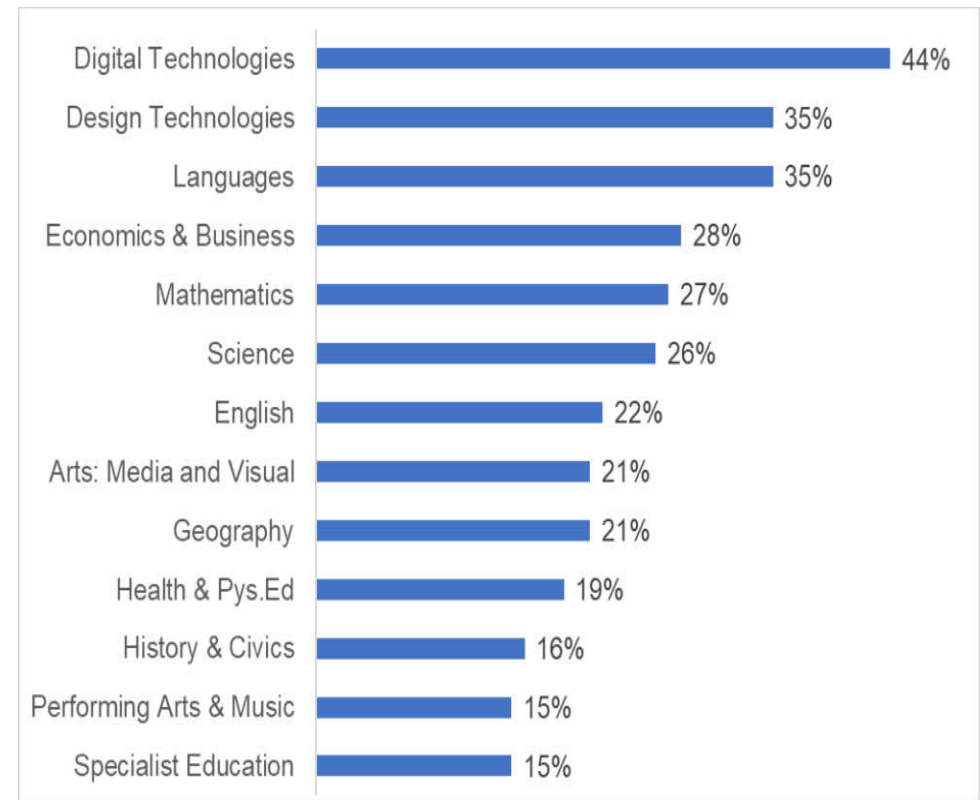


Deakin
Course Discussion

About the Initiative

- Digital technologies and design and technologies hardest subjects to recruit, creating significant workforce challenges for schools.
- \$10.1 million commitment to address out-of-field teaching in STEM, including:
 - a third intake of mathematics and science graduate certificates (SMSI).
 - two new graduate certificates in digital technologies and design and technologies.

Secondary Recruitment Challenges by Subject Area



Source: Victorian Teacher Supply and Demand Report 2021

The Impact of the Science and Mathematics Certificates on Participants and Schools

SMSI Intake 2 survey, 2023

93% of responding principals report:

👍 Course participation has increased teachers' confidence.

92% of responding teachers report:

👍 The course has provided me with the knowledge I need to effectively teach.

👍 My students are learning more from me.

👍 I am better equipped to answer student questions.

"It's improved my teaching a lot...the pedagogical approaches that they have has also helped my teaching a lot and confirmed things in different areas as well, and my students love it."

Participant

"Our numeracy leader has been asking what are we bringing back from the course and we've already set up times that we can meet with our team to bring back what we've learnt."

Participant

"They have improved their confidence; they could teach the curriculum effectively and students have achieved and that's what we want....I think the program has delivered a real positive."

Principal

Structure of Technologies Graduate Certificates

Certificate Structure

- Four units delivered in the 2024 and 2025 school terms.
- Blended learning model:
 - face-to-face days (2 per term)
 - online workshops held after-school hours (3 per semester).
- 50 places available
- 50% of places reserved for regional and rural participants

Support Structure

- The certificates are fully-funded:
 - School funding to support teacher participation.
 - Travel reimbursement for eligible teachers.
- Tailored support from Deakin University that acknowledges the challenges for teachers as adult learners returning to tertiary study.

Eligibility Requirements

To be eligible for either technologies graduate certificate, teachers must:

Be employed as a teacher in a Victorian government school when applying and during the 2 years of the course

Have been teaching digital technologies or design and technologies out-of-field for up to 5 years

Be allotted least one class in the subject area of the graduate certificate chosen in both the 2024 and 2025 school years

Have discussed the opportunity with their school principal and have their principal's endorsement to participate

Have reached a shared understanding with their principal of the support the school will provide them to undertake the course

Be committed to completing the course (noting there is no capacity to defer and places are limited).

The Expression of Interest (EOI) process

EOIs open until 1 September 2023

1. Teacher and principal discussion to confirm endorsement and to reach a shared understanding of school support.
2. EOI submitted and reviewed by STEM Education Unit.
Will be asked for principal details and about the support the school will provide.
3. Principal contacted for written endorsement and to identify the support the school will provide.
NOTE: Principal endorsement is required before places in either graduate certificate will be confirmed.
5. Early to Mid-September: Applicants and principals informed of the outcome to allow workforce planning.

School Support – A Critical Success Factor

Benefits of School Support

Evaluation of SMSI certificates - benefits both teachers and their schools:

- Experienced teachers with contemporary practices and resources to share.
- Improved student engagement and outcomes.
- >85% of teachers stay with their school after completion.

School support is critical for teacher success.

Support for Schools

- Equivalent of 0.1FTE of a 2.6 classroom teacher salary
 - ~\$13,000 per year
 - Credit through Student Resource Package
- To support attendance at face-to-face days, plus study and assessment.
- Works best when teacher and principal have reached a clear understanding of what support will be provided **before** course starts.

School Support – A Critical Success Factor

Examples of how schools can support participants

The incorporation of study time into a participant's allotment to enable their full engagement with the course content, with a casual relief teacher (CRT) employed during face-to-face intensive learning days.

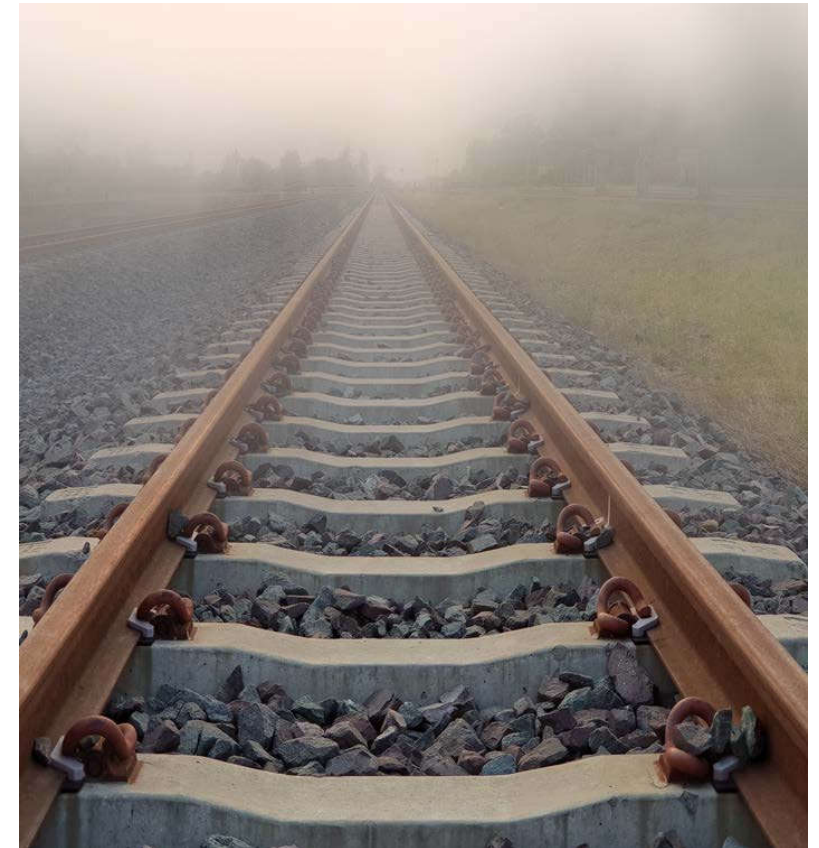
The use of a CRT to release participants for face-to-face intensive learning days and at other times to complete pre-course work and to meet assessment deadlines and other course commitments.

The hiring of a permanent staff member at 0.1 FTE for the length of the course to cover participating teachers' allotted study time and their attendance at face-to-face intensive learning days.

The provision of a mentor to build teacher confidence in the classroom, with a portion of the funding being used to provide time release for the participant and their mentor to work together.

Travel Reimbursement

- For teachers in schools more than 100km from face-to-face intensive venues.
 - \$320 per day (\$640 total)
 - Travel, meals, and accommodation.
- To support teacher participation on face-to-face course days.
- Eligible schools and teachers will be notified before course commencement.



Questions?



What is a Graduate Certificate?

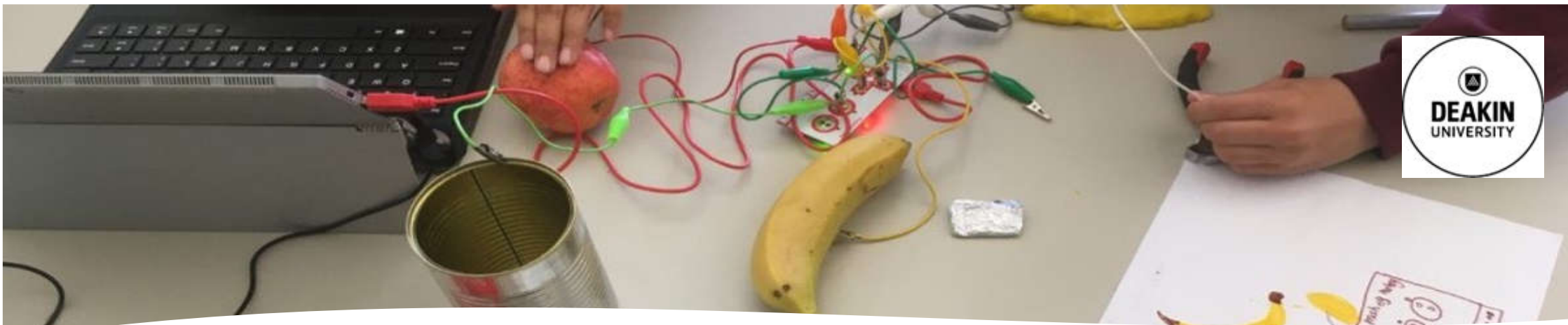
Level 8 in Australian Qualifications Framework



Purpose

- To apply a body of knowledge to undertake professional work.
- To support a change in discipline area or leadership.
- To develop a foundation for future postgraduate study and higher degree by research.
- Typically delivered across 1 year part-time (50% load).





Reasons for doing these courses

- Fill gaps and build confidence in professional knowledge and skills for Technologies teaching.
- Develop professional agency and leadership skills to strengthen Technologies implementation in your school.
- Extend your professional network by connecting with other Technologies teachers.
- Dedicate time to identifying and creating teaching and learning resources.
- Obtain a credential to become an in-field Technologies teacher (for free and with support).

Structure for each unit

**Delivered across
one semester**
Inside term times

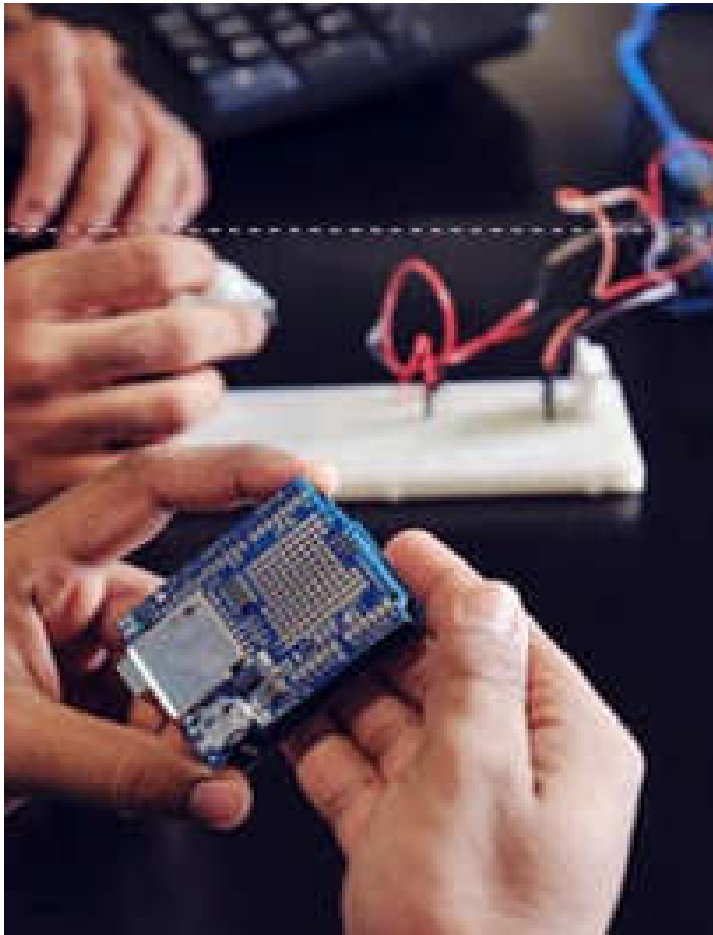
Intensive Days 1 & 2

3-4 Online seminars
scheduled after school

Intensive Days 3 & 4



Graduate Certificate of Secondary Digital Technologies (GCertSDigTech)



Content and Structure

	Term 1 and 2	Term 3 and 4
2024	EDT701 Creating Digital Solutions: Design Pedagogies	EDT702 Data and Information: Curriculum Innovation
2025	EDT703 Digital Systems: Curriculum Planning and Assessment	EDT704 Teacher Agency in Digital Technologies: Working with Community and Industry

GCertSDigTech: Approach to Professional Learning

- Front loading content expertise.
- Identifying, adaptive, creating and sharing teaching and learning resources.
- Reflection on opportunities and challenges of your own school setting.
- Explicit and modelled, hands-on learning and reflective dialogue.
- Invited presentations by expert teachers.
- Spiral curriculum – Digital Technology strands; Teacher capabilities; use of digital technology resources.



GCSDigTech: Ontrack Innovative Assessment Model



- You choose your grade to match your circumstances, aspiration and current agency as a student
- Assessment tasks can be resubmitted following formative feedback
- You adjust your grade if your circumstances, aspirations, or confidence level for studying change

Graduate Certificate of Secondary Design and Technologies (GCertSDes&Tech)

Content and Structure

	Term 1 and 2	Term 3 and 4
2024	Design and systems thinking	Engineering systems, food and fibre production
2025	Food and material processing technologies	Ethical and sustainable design in local and global context





GCertSDes&Tech: Structure & Assessment



- Design challenges, working with a variety of materials and technologies with explicit attention to classroom practice.
- Assessment builds on intensives and applies learning into your classroom and school.

GCSD&T: Teaching & Support



- Intensives at Deakin University and Tech Schools in teaching and research spaces built for Design and Technologies and with cutting edge technologies.
- Teaching from School of Engineering, School of Education and Tech School facilitators.
- Personalised support from DATTA mentors and Deakin academic staff.



CIRCLS: Support for return to study

"I do want to say that I really appreciate all your help.... You have helped me see that I do have the skills and have provided me with the help so I can refine them and become a better educational writer. Thank you so much! 😊"

Participant response to CIRCLS support

Collaborative, **I**ndependent, **R**eflexive & **C**onected **L**earning **S**upport

- Targeted, individualised and small group support, specifically for teachers in the SSTM courses.
- Assistance with return to study, building academic skills, professional agency and research-informed practice.
- Extends professional networks.
- Participants of CIRCLS are provided with a safety net as they return to study whilst also navigating their changing professional identities to becoming in-field in a new subject area.



Questions?



Next steps

Thanks for joining us!

Further questions?

<https://www.schools.vic.gov.au/secondary-sciences-technologies-and-mathematics-sstm-initiative>

Get in touch

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