

Tranche IA Course Overview

show how the learning will have an impact on learners and their communities into the future.

This course replaces the current *Community Access* Level I (CAC110117).

Additional context for providers

RESPECT



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Proposed Course	Course Description	Rationale
Science Level I Personal futures	Science Level I enables learners to be in control of their understanding of our shared world and prepare them for their possible futures. Science Level I will harness learners' curiosity, wonder and interest in the biology, Earth and space science, physics and chemistry. They will follow and extend their own interests to investigate, imagine and explore ideas by inquiring into what is around them in their local community Learners will be guided in a variety of rich and meaningful inquiry-based experiences when learning. Through a flexible and open-ended approach, they will revisit and reflect on their ideas, extending their thinking to take on further challenges.	Science Level provides a rational and empirical way of answering interesting and important questions about the biological, physical and technological world. The knowledge it produces has proved to be a reliable basis for action in our personal, social and broader lives. Science Level completes a continuum of science courses from Preliminary to Level to Level 4 and allows all learners to continue mandatory Science from Year 10, the Preliminary Science course. Currently over 50% of jobs in Tasmania benefit from a science background (calculated from: https://economy.id.com.au/tasmania/employment-by-industry) — and this will only increase. Science Level will: • prepare learners for employment opportunities that require foundational scientific knowledge and skills • enable equity of access to Science to all learners, ensuring that learners can include science as part of their pathway within Senior Secondary education, no matter what their background • provide a flexible course for those not on a university pathway and where their pathway is not easily defined within one area of science • provide explicit articulation of the General Capabilities, with learner choice embedded, thereby increasing student agency • allow learners to negotiate areas of focus where they can gain the greatest benefit from their learning and for their possible future pathways. All learners should have the opportunity within their compulsory education to engage or reengage with all learning areas, including science. It has been identified locally (https://stem.education.tas.gov.au/), nationally (https://www.education.gov.au/review-achieve-educational-excellence-australian-schools) and internationally (https://enunesco.org/unesco.science report) that greater STEM understanding, in this case science, benefits learners, the workforce and the broader community.
Civics and Citizenship Level I Discipline-based study	Civics and Citizenship Level I is about participating in Australia's democratic system and local and global communities. Civics and Citizenship Level I includes four main topics. These are: Australia's democratic system, Australia and the world, citizenship, and belonging and diversity. Learners will experience a strong focus on applied learning and 'opportunities and obligations'. These themes	As a Years 9 to 12 Education course, <i>Civics and Citizenship</i> Level 1 enables learners to reach their potential, in particular it provides opportunities for developing Personal Empowerment, Cultural Transmission and Preparation for Citizenship. The course is intended to provide Level 1 access to a number of HASS suites of learning, including those in Legal Studies and the proposed suites in Global Futures and Human Behaviour.



Civics and Citizenship Level 1 is designed to consolidate the knowledge, understanding, skills and confidence

communities, and to work collaboratively and respectfully with others in the pursuit of shared goals. A further

focus of the course is to develop the confidence, judgement, responsibility and civic engagement of learners; and to enhance these personal qualities through student agency in the selection of personal and group interest

required to participate fully in Australia's democratic system of government, to engage fully in their own

projects of applied work in each of the three modules.

Proposed Course	Course Description	Rationale
Enterprise at Work	Enterprise at Work Level 2 is a practical course that connects learners to existing or new enterprises as they learn what it means to be an enterprising person. They will discover their enterprising strengths, develop	Enterprise at Work engages learners by activating their confidence, creativity and capability potential and lead productive and fulfilling lives.
Level 2 Work-based learning	targeted transferrable enterprise skills and gain insight into future job clusters, including options for self- employment.	According to The Foundation for Young Australians (FYA) New Work Order research (F skills are transferable employability skills that enable young people to engage with a comple
	Students will take active roles, as part of a team, in one or more enterprise projects related to events, products, the challenges they will in	the challenges they will inherit. Enterprise skills are not just for entrepreneurs, they are skill many jobs. The terms used to describe these skills vary across different contexts: sometime
	Learners will develop the creativity, problem-solving and collaboration skills that are critical to founding new enterprises and for individuals to work in, work for and work with these enterprises.	The nature of work is rapidly changing. Enterprising mindset and entrepreneurial behaviour as important transferrable characteristics that have been found to be powerful predictors of success. Research has identified that there is a strong correlation between family backgrour (Education Development Trust, UK, 2020) ² . Enterprise at Work Level 2 provides a way for develop an enterprising mindset and entrepreneurial behaviours, embedded in digital ways support them to be confident and creative individuals, able to adapt to their circumstances.
		https://www.fya.org.au/wp-content/uploads/2017/07/NWO_ReportSeriesSummary-1.pdf https://www.educationdevelopmenttrust.com/our-research-and-insights/research/youth-transitions-creating-pathways-to-suc
Engineering Design Level 2 Professional studies	Engineering Design Level 2 enables learners to be creative problem solvers who explore how and why things work. Learners will be supported to work individually and collaboratively with others to explore the activity of engineers through practical problem-solving using engineering design processes.	Technologies enrich and impact on the lives of people and societies globally. The practical r Technologies learning area engages students in critical and creative thinking, including under interrelationships in systems when solving complex problems. (ACARA, 2021).
	Engineering Design Level 2 incorporates concepts from Maths, Science and subjects such as Design and Technology, Computing and Construction, within project-based learning to enable learners to solve problems and to design and improve things.	The Engineering Design suite provides a flexible framework for learners to engage with enand systems through integrated Science, Technologies, Engineering and Mathematics (STEN is a broad term covering a wide range of skills and diverse disciplines but fundamentally, eng

Additional context for providers

This course replaces the current Engineering Design Level 2 (EDN215118).

to explore and products they choose to create in response to authentic challenges.

Learners will have opportunities to shape their learning experience through their interests, questions they want

lity to reach their

(FYA, 2018), enterprise olex world and navigate kills that are required in mes called generic, soft,

ours have been identified rs of long-term job ound and enterprise skills for all learners to ays of working, which will es and be successful.

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engineering principles EM) inquiry. Engineering engineering is about improving people's lives through engineered solutions.

The Engineering Design suite encourages students to become aware of factors that influence innovation and enterprise, and the subsequent success or failure of a product.

Learners will develop a specific skill set that will enable them to confidently explore a challenge or identify an existing problem and develop a solution in an engineering context. This will be achieved through an engineering design process and learners will gain valuable experience, not only in designing engineered components but also in project management.

Learners will learn to generate imaginative and creative solutions of their own. They will communicate their ideas within the parameters and requirements of engineering-based tasks whilst gaining and applying knowledge of industry standards of design, manufacture, and safety. Through practical experiences, learners will learn to use technology to design, test and appraise products, systems and solutions and identify and articulate further improvements and developments.

Proposed Course	Course Description	
Transdisciplinary Science	Transdisciplinary Science Level 2 provides an opportunity to inquire deeply into an area of scientific interest within Tasmania.	
Level 2	Learners will apply inquiry-based approaches to design, plan, and undertake investigations across scientific	
Transdisciplinary projects	disciplines, responding to local or global situations. Learners will experience and gain expertise in inquiry processes and how knowledge is created.	
	By coming to an evidence-based understanding through the applied observation and thinking skills in this course learners are prepared for any pathway in 21st century.	
	Additional context for providers	
	The Transdisciplinary Science course is intended to be used for projects within provider set parameters/foci, for example: Marine and Southern Ocean (Antarctic) studies, Renewable Energy or Earth and Space. It may also be used for individual student transdisciplinary projects.	

Rationale

Science provides a rational and empirical way of answering interesting and important questions about the biological, physical and technological world. The knowledge it produces has proved to be a reliable basis for action in our personal, social and broader lives.

Innovative and critical thinking in the world of science underpins a cohesive understanding of the natural world and the discovery of new ways of doing and thinking. Science is continually refining and expanding knowledge and stimulating new questions for future investigation.

As part of a suite of two proposed flexible science components *Transdisciplinary Science* Level 2 provides a powerful platform for learners to develop their capabilities, in particular, to think creatively, work collaboratively, and be innovative and to prepare for Level 3 science courses. In practice, most modern and applied science flows between scientific disciplines and is transdisciplinary by nature.

Learners undertaking *Transdisciplinary Science* Level 2 will apply inquiry-based approaches to design, plan, and undertake investigations across scientific disciplines on a short term or more extended scale, responding to local or global situations. Both collaboratively and individually, learners will employ a scientific approach to collecting, representing, and analysing data, and using technological tools effectively. After evaluating their procedures or models, learners communicate scientifically to draw evidence-based conclusions that may lead to further testing, exploring more effective methods or solutions, or raising new questions. They will be equipped to navigate, understand and adapt to what we experience as 21st century learners.