Unit Outline (Higher Education)

Institute / School:	Institute of Innovation, Science & Sustainability
Unit Title:	PROJECT 2
Unit ID:	ITECH3209
Credit Points:	15.00
Prerequisite(s):	(ITECH3208)
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	029999

Description of the Unit:

This is the second of two IT capstone project units. In this unit you will continue to work in teams to complete your authentic industry IT project begun in ITECH3208 Project 1. You will continue to follow an agile approach to development and negotiate with your client and other stakeholders to agree on deliverables. This is an opportunity to refine your knowledge and skills from previous units and experience aligned with professional expectations and good practice. You will have a chance to apply higher level professional standards such as SFIA and CBOK to your project needs to create and deliver outcomes that benefit your client.

You will be expected to independently seek out industry events such as seminars, workshops and expos and use industry sources to build upon your knowledge and support your project work. This is an opportunity to develop and reflect on your professional experience to date and to broaden your understanding of the IT industry. .

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

Not wholly work experience: Student is not undertaking work experience in industry or student is undertaking work experience in industry where learning and performance is directed by the provider.

Placement Component: No

Supplementary Assessment: No

Supplementary assessment is not available to students who gain a fail in this Unit.

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory						
Intermediate						
Advanced			✔			

Learning Outcomes:

Knowledge:

K1. Conduct agile project management ceremonies and adopt agile processess and methodologies to manage the delivery of a solution to a particular IT problem.

K2. Ascertain stakeholder needs and maintain effective client relationship management through appropriate communication with all stakeholders.

K3. Work collaboratively as a team member by defining and adopting roles and responsibilities based on industry procedures and standards.

K4. Communicate technical information effectively to a variety of stakeholders.

K5. Adapt a chosen methodology for project development including creation of appropriate artefacts and supporting documentation.

K6. Interpret and apply feedback from stakeholder reviews to improve the quality of project deliverables.

K7. Identify and reference relevant industry frameworks such as the Australian Computer Society`s (ACS) Core Body of Knowledge (CBOK) and the Skills Framework for the Information Age.

Skills:

S1. Consult with a client and other stakeholders, evaluate alternative solutions, propose and contribute to the delivery of appropriate artefacts for an IT project.

S2. Conduct a critical review of work completed by others. Communicate to offer helpful advice using a sensitive and respectful approach.

S3. Evaluate industry resources and select appropriate techniques and tools to use to develop the project deliverables.

S4. Plan and deliver technical and non-technical presentations to a variety of audiences regarding an IT project.

S5. Collaborate as part of a coordinated team to create and deliver a solution to a client for an IT project.

S6. Analyse and link the ACS`s CBOK and SFIA to industry practice.

Application of knowledge and skills:

A1. Select and create appropriate artefacts and/or models based on industry practice to deliver project outcomes.

A2. Analyse a problem, decompose that problem into achievable deliverables to be produced. Monitor and track progress on these deliverables using industry recognised tools.

A3. Apply industry recognised processes and techniques, using tools for agile planning, estimation, development and delivery of an IT project.

A4. Communicate with various stakeholders and create appropriate technical and non-technical support documentation detailing the project work completed.

A5. Perform monitoring and quality assurance processes, give progress presentations and review the work of others.

A6. Collaborate with others, applying industry recognised techniques to create artefacts as deliverables to solve an IT project.

A7. Reflect on individual and group performance. Seek out opportunities to suggest improvements in your team. Identify how you have individually developed CBOK and SFIA skills as part of your project work.

Unit Content:

This second project unit will usually involve the completion of a project commenced in the first project unit. Following from the project planning and initial execution completed in the first project unit, the focus for this unit is to execute, monitor and close an IT project. Acceptance criteria identified during the first project unit must be included in an appropriate testing framework, with appropriate validation and verification performed. The complete project implementation and documentation will involve close consultation with the client.

Topics may include:

- Working effectively in teams. Using a team charter.
- Estimating work and monitoring progress for completion.
- Executing, monitoring and delivering projects using agile techniques.
- Quality assurance. Verification and validation.
- Writing technical and non-technical documentation.
- Developing poster presentations.
- IT and related industry activity and research developments in the local community, and around the globe; ACS's CBOK, SFIA and their relationship with industry; Career pathways.

FEDTASKS

Federation University Federation recognises that students require key transferable employability skills to prepare them for their future workplace and society. FEDTASKS (**T**ransferable **A**ttributes **S**kills and **K**nowledge) provide a targeted focus on five key transferable Attributes, Skills, and Knowledge that are be embedded within curriculum, developed gradually towards successful measures and interlinked with cross-discipline and Co-operative Learning opportunities. *One or more FEDTASK, transferable Attributes, Skills or Knowledge must be evident in the specified learning outcomes and assessment for each FedUni Unit, and all must be directly assessed in each Course.*

FEDTASK attribute and descriptor	Development and acquisition of FEDTASKS in the Unit	
	Learning Outcomes (KSA)	Assessment task (AT#)

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		Learning Outcomes (KSA)	**Assessment task (AT#)**
FEDTASK 1 Interpersonal	Students will demonstrate the ability to effectively communicate, inter-act and work with others both individually and in groups. Students will be required to display skills in-person and/or online in: • Using effective verbal and non-verbal communication • Listening for meaning and influencing via active listening • Showing empathy for others • Negotiating and demonstrating conflict resolution skills • Working respectfully in cross-cultural and diverse teams.	K1, K2, K3, K4, K6, S1, S2, S4, S5, A4, A5, A6, A7	AT1, AT2, AT4
FEDTASK 2 Leadership	Students will demonstrate the ability to apply professional skills and behaviours in leading others. Students will be required to display skills in: • Creating a collegial environment • Showing self -awareness and the ability to self-reflect • Inspiring and convincing others • Making informed decisions • Displaying initiative	Not applicable	Not applicable
FEDTASK 3 Critical Thinking and Creativity	Students will demonstrate an ability to work in complexity and ambiguity using the imagination to create new ideas. Students will be required to display skills in: • Reflecting critically • Evaluating ideas, concepts and information • Considering alternative perspectives to refine ideas • Challenging conventional thinking to clarify concepts • Forming creative solutions in problem solving.	K5, S1, S3, A1, A2, A6	AT2, AT3

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the Unit	
		Learning Outcomes (KSA)	**Assessment task (AT#)**
FEDTASK 4 Digital Literacy	Students will demonstrate the ability to work fluently across a range of tools, platforms and applications to achieve a range of tasks. Students will be required to display skills in: • Finding, evaluating, managing, curating, organising and sharing digital information • Collating, managing, accessing and using digital data securely • Receiving and responding to messages in a range of digital media • Contributing actively to digital teams and working groups • Participating in and benefiting from digital learning opportunities.	K1, K3, K4, K5, S1, S3, S4, S5, A1, A2, A3, A4, A5, A6	AT1, AT2, AT3, AT4
FEDTASK 5 Sustainable and Ethical Mindset	Students will demonstrate the ability to consider and assess the consequences and impact of ideas and actions in enacting ethical and sustainable decisions. Students will be required to display skills in: • Making informed judgments that consider the impact of devising solutions in global economic environmental and societal contexts • Committing to social responsibility as a professional and a citizen • Evaluating ethical, socially responsible and/or sustainable challenges and generating and articulating responses • Embracing lifelong, life-wide and life-deep learning to be open to diverse others • Implementing required actions to foster sustainability in their professional and personal life.	Not applicable	Not applicable

Learning Task and Assessment:

Students will engage in project activities that align with their enrolled study stream.

Assessment tasks are designed to measure the learning outcomes of the capstone project units, however, successful projects will require application of additional project-dependent skills not explicitly listed in this unit outline. If students study a specialised stream then these additional learning outcomes will align with the learning outcomes identified by the stream of study at the program level.

Each study specialisation stream identifies with the corresponding ACS CBoK knowledge areas and the SFIA skills that will be assessed (these are in addition to those identified in the ACS and SFIA sections of this outline) if students are enrolled in that study stream. *Please Note: Professional Practice students enrolled in CI5 will be considered depending on the their registered focus area.*

Students will negotiate and complete a project in an area related to their stream specialisation/electives completed.
Wherever possible, assessment tasks are generic to all projects and will not be specific to individual projects. Assessment in this unit aims to replicate many of the types of scenarios that students would face in a professional setting, including writing appropriate documentation, giving presentations to technical and non-technical audiences, and critical self reflection.

Typically, if all team members have worked equally in the project, the same grade will be awarded to all team members for team submissions. In cases where it can be demonstrated that one or more team members have not participated equally, the supervisor and unit coordinator will alter individual grades and/or request additional assessment tasks to be completed.

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K3, S5, A7	Engage in agile ceremonies to coordinate work in your project team and reflect on team processes.	Individual report demonstrating evidence of engagement, contribution, leadership and reflections on outcomes from ceremonies conducted.	15-20%
K3, K4, S1, S3, S5, A1, A2, A3, A6	Using industry tools and practices, each student contributes to work collaboratively in a team to create and deliver outcomes that deliver value to your client, solving an IT related problem.	Project deliverables: technical reports or products with appropriate supporting documentation. Assessed based on individual contribution.	30-40%
K1, K3, K5, K6, S2, S3, S4, A3, A4	Create industry recognised artefacts and use appropriate tools to plan, estimate and monitor work completed and track progress in your project.	Artefacts and project information radiators. Evidence of appropriate use of industry recognised tools and techniques for estimation and monitoring progress.	15-30%
K2, K4, K6, S4, A4, A5	Consult with a client, report on progress, give presentations to explain and justify solution and demonstrate work completed to a variety of stakeholders. Review and provide feedback to peers	Presentations	20-30%
K7, S3, S6, A7	Each student will describe their independent engagement with industry resources or activities to research and evaluate alternative solutions, consider ethical impacts of decisions or learn new skills to support their project work. The student will discuss their work and reflect on their own skills development and relate it to the unit's learning outcomes, CBOK and SFIA skills	Journal or Essay. The student may also be requested to attend an interview to discuss this further.	Hurdle task: Satisfactory/Unsatisfactory

Adopted Reference Style:

APA

Refer to the library website for more information

Fed Cite - referencing tool