



# **GCA RISK MANAGEMENT REGISTER**

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## A. RISK MANAGEMENT PLAN

### Rationale:

This document is Group Colleges Australia's (GCA) Risk Management Plan (*including UBSS*) that identifies and assesses risks considered likely and relevant to GCA as a private education provider (iHEP), and further identifies risk treatment and mitigation strategies. This plan defines GCA's risk operating model, appetite, responsibilities, methodology and monitoring as well as reporting obligations.

GCA is committed to building a risk culture that encourages deliberate and pro-active risk management in a manner and at times or intervals commensurate with GCA strategic objectives.

This document applies to all the campuses of GCA across Australia.

The GCA Board is the custodian of risk management for GCA, with operational monitoring, stakeholder consultation and communication delegated to the Chief Executive Officer (CEO) and Senior Managerial staff. *An Executive Director on the GCA Board, Emeritus Professor Greg Whateley (Deputy Vice Chancellor, GCA) is the designated Director responsible for the oversight and reporting of risk (including WHS).*

### Definition of Risk Management:

A risk is defined by the Australia/New Zealand Standard for Risk Management (AS/NZS ISO 31000:2018) (1) as "the effect of uncertainty on objectives"; and further defines 'effect' as a deviation from the expected: positive and/or negative; "objectives" can have different aspects (such as the financial, health & safety and environment goals) and can apply at different levels (strategic, organisation wide, project, product and processes). Risk is often characterised with reference to *potential* events and *consequences* or a combination of these. Risk is often expressed in terms of a *combination of the consequences of an event and the associated likelihood of occurrences*. The AS/NZS ISO 31000:2018 has been used as a guide to develop this Risk Management Plan. The Standard defines risk management as "coordinated activities to direct and control an organisation with regard to risk". Risk management is defined as the coordinated activities to direct and control an organisation with regard to risk.

The benefits of risk management include - *decreases* the potential for unacceptable conduct such as fraud and harassment; *increases* the ability to identify, evaluate, and manage threats and opportunities, including the flexibility to respond to unexpected threats, and the ability to take advantage of opportunities and gain a competitive advantage; helps deal with complex and shared risk; accountability and facilitates better governance; financial management; organisational performance and resilience; and confidence to make difficult decisions.

### Risk Appetite

Risk is a necessary part of doing business. Not all risk can be treated or avoided, therefore, organisations have to accept some level of risk. An organisation's appetite for risk is central to the way it does business. Each level of the organisation needs clear guidance on the limits of risk they can take. GCA adopts the definitions for risk appetite and risk tolerance that are set out in the Standard - ISO 31000:2018 Risk Management - Guidelines.

- Risk appetite: the amount of risk GCA is willing to accept or retain in order to achieve its objectives.
- Risk tolerance: the levels of risk taking acceptable to achieve a specific objective or manage a category of risk.

Risk appetite sets the tone for risk-taking in general; risk tolerance informs

- i. expectations for mitigating and pursuing specific types of risk;
- ii. boundaries and thresholds for acceptable risk taking; and
- iii. corrective actions to be taken when tolerances are reached or breached.

GCA's appetite for risk is communicated primarily through the strategic planning process. In determining its appetite for risk, GCA needs to strike a balance between a prudent and robust approach to risk mitigation, and to permit sufficient flexibility to foster the entrepreneurial spirit that has greatly contributed to the success of GCA.

Risk appetites and tolerances will be set, approved, monitored and reviewed at appropriate intervals by both governance and management noting that -

- Risk appetite is not a single, fixed concept;
- There will be a range of appetites for different risks which need to align and these appetites may vary over time;
- Risk appetite must take into account differing views at a strategic, tactical and operational level;
- Although risk appetite is commonly thought of in strategic terms it must be addressed throughout the breadth of GCAs operations to be useful / effective;
- The propensity to take risk, and the propensity to exercise control, directly influence the setting and monitoring of risk appetite;
- It is important to determine what successful performance looks like in order to set risk appetite and tolerance.

Risk appetite is assessed as conservative, balanced or entrepreneurial in the follow way -

*Conservative:* unless there is a compelling reason to do so, GCA should not accept opportunities with risks attached that could result in significant exposure or loss, and should proceed with caution in pursuing these opportunities;

*Balanced:* there is some risk associated with the opportunity being pursued, however there are mitigating actions available to help reduce these risks to an acceptable level of exposure;

*Entrepreneurial:* there is some higher risk associated with the opportunity being pursued, but there are treatments available to mitigate the risk, and the opportunity is worth pursuing.

### **Risk Identification Process:**

The GCA Risk Plan was developed by way of scoping the external and internal environment and identifying risks that are particular and considered relevant to the Australian Higher Education environment and GCA, in particular, as a private provider (independent higher education provider, or iHEP). The identified risks were then assessed in terms of the *likelihood of occurring* (RL) and their *impact factor* (RI). Mitigation strategies have been developed for each risk to treat or minimise them should they occur. This risk identification and treatment process is based on the seven key steps outlined in the above ISO 31000:2018 Risk Management Standard. The process flow is outlined in this document.

**Risk Monitoring:**

The Risks outlined in this Plan are current and are reviewed regularly. The formalisation of the plan was refreshed in September 2017 and again in January 2021. The Audit and Risk Standing Committee presents changes to each GCA Board meeting. The operational risk managers indicated in the Risk Plan will monitor risks across their areas of responsibility. All meetings of GCA committees receive an update on risk management - *currently championed by the Executive Dean, UBSS*. Further, on the insistence of TEQSA (though not mandated by the Threshold Standards) a *Risk and Audit Committee* (a standing committee of the GCA Board) has been established and is chaired by Emeritus Professor Greg Whateley the Deputy Vice Chancellor (GCA) and an Executive Director of the GCA Board *designated as the Director responsible for the oversight and reporting of risk (including WHS)*.

**Stakeholder Consultation and Communication:**

As is strongly advocated by the TEQSA Corporate Governance Guidance Note (Version 2.4 dated 26 August 2019) the GCA Board is the *custodian* of risk management for GCA. An Executive Director and Deputy Vice Chancellor, GCA is the designated Director *responsible for the oversight and reporting of risk (including WHS)*. Stakeholder communication and consultation is the responsibility of the Chief Executive Officer (CEO) and/or members of the GCA Executive Committee, as delegated by the GCA Board, as detailed for each identified risk in the GCA Risk Plan.

**Risk Delegation**

Contents	Responsible
Regulatory Compliance	Deputy Vice Chancellor and CEO (DVC & CEO)
External Market	Director – Admissions, Compliance and Operations (D, A, C & O)
Academic Matters	Executive Dean (ED)
Staffing	Deputy Vice Chancellor and CEO, Executive Dean (DVC & CEO)
Finance and Sustainability	Financial Controller (FC)
Technical	Chief Technology Officer (CTO)
Physical Resources and WHS	Provosts – Sydney, Melbourne and Adelaide (P)

Deputy Vice Chancellor and CEO has a watching Brief

Deputy Vice-Chancellor and CEO is the *designated Director responsible for the oversight and reporting of risk (including WHS) to GCA Board*

**GCA Board Membership Endorsement**

Garry Malhotra	Chair and President
Hon Zed Seselja	Independent Member
Dr Ruth Ferraro	Independent Member
Emeritus Professor Greg Whateley	Executive Member

**Risk Register Endorsement History (2014 – current)**

Approved by GCA Board (28/02/14)	Reviewed and Updated (23/06/2021)
Status Update (04/04/14)	Reviewed and Updated (13/10/2021)
Reviewed and Updated (02/05/14)	Reviewed and Updated (19/01/2022)
Reviewed and Updated (15/10/15)	Reviewed and Updated (23/03/2022)
Reviewed and Updated (30/05/16)	Reviewed and Updated (08/06/2022)
Reviewed and Updated (15/09/2017)	Reviewed and Updated (19/10/2022)
Reviewed and Updated (23/11/2017)	Reviewed and Updated (18/01/2023)
Reviewed and Updated (14/03/2018)	Reviewed and Updated (22/03/2023)
Reviewed and Updated (06/06/2018)	Reviewed and Updated (08.08.2023)
Reviewed and Updated (05/09/2018)	Reviewed and Updated (18/10/2023)
Reviewed and Updated (13/03/2019)	
Reviewed and Updated (05/06/2019)	
Reviewed and Updated (14/08/2019)	
Reviewed and Updated (30/10/2019)	
Reviewed and Updated (05/02/2020)	
Reviewed and Updated (03/06/2020)	
Reviewed and Updated (05/08/2020)	
Reviewed and Updated (07/10/2020)	
Externally Reviewed and Updated (12/12/2020)	
Internally Reviewed and Updated (15/12/2020)	
Independently Reviewed and Updated (06/01/2021)	
Reviewed and Updated (26/01/2021)	
Reviewed and Updated (27/01/2021)	
Reviewed and Updated (24/03/2021)	

## B. RISK REGISTER PROCEDURES

1. When any stakeholder becomes aware of a possible risk, it is their responsibility to report the risk to their immediate Manager/supervisor/contact.
2. If the risk is not immediately contained the stakeholder is to notify the GCA Audit and Risk Committee of the risk, its implications and actions taken to date-
  - a. The Chair of the Audit and Risk Committee (ARC) will instigate risk mitigation actions and;
  - b. Record the risk and actions taken in the Risk Register.
3. As required, the Chair of the Audit and Risk Committee will communicate the details of the risk to the GCA Board.
4. All identified risks shall be recorded in the Risk Register which will be regularly reviewed.
5. The GCA Audit and Risk Committee (ARC) meets as a minimum four times each year and considers and updates the Risk Register. The members of the ARC are suitably qualified professionals in their specific areas of expertise. All Business Units are represented on the ARC.
6. The Chair of the ARC is a member of the GCA Board of Directors.
7. A week before each meeting the latest version is distributed to ARC Committee members. The person/s responsible for the section reviews and highlights recommended changes if needed. At the ARC meeting any changes are highlighted section by section. Any changes are reported to the following GCA Board of Directors meeting.
8. At each GCA Board meeting Risk is a starred standing item.

## C. GCA EXTERNAL ENVIRONMENT

External Environment Contributing to Risk: SWOT Analysis				
Customers	Stakeholders	Competitors	Suppliers	Government and Society
<p>Australian students</p> <p>International Students</p>	<p>ITECA</p> <p>Auditor: Pitcher Partners</p> <p>Banks: CBA and ANZ</p> <p>CA ANZ</p> <p>IHEA</p> <p>HEPP_QNN</p> <p>CPA Australia</p> <p>DET</p> <p>AEI</p> <p>DHA</p> <p>Employer Sponsors</p> <p>General Community</p> <p>IPA Australia</p> <p>Parents, relatives and close friends of students</p> <p>Prospective employers</p> <p>TEQSA</p> <p>IEAA</p>	<p>Australian offshore institutions</p> <p>Large consortia of online education such as:</p> <ul style="list-style-type: none"> <li>- AIB</li> <li>- Open Universities</li> <li>- Torrens University</li> <li>- UNE</li> </ul> <p>NUHEPs</p> <p>Public Higher Education Providers and particularly Sydney satellite campuses - CQU, Swinburne University</p> <p>TAFE</p>	<p>Agents –International</p> <p>Agents - local (Sydney-based)</p> <p>CampusQ</p> <p>Providers of advertising and marketing services: GCA advertising, internet, billboards, print media</p> <p>MyQual International IT</p>	<p>Australian dollar exchange rate.</p> <p>Commonwealth and State legislation including: Privacy, WHS, Access and Equity, Workplace Harassment, Victimization and Bullying</p> <p>DHA policies: student visas, migration, etc. – change to long visa processing times.</p> <p>Education Services for Overseas Students Act (ESOS) 2000</p> <p>Higher Education Support Act 2003 (HESA)</p> <p>Industrial awards</p> <p>National Code of Practice Training</p> <p>TEQSA: Threshold Standards</p> <p>Tertiary Education Quality Standards Agency Act (2015)</p> <p>Tuition Assurance: Tuition Protection Scheme (TPS)</p>



**GCA INTERNAL ENVIRONMENT**

Internal environment Contributing to Risk: SWOT Analysis				
SWOT	People	Processes	Technology	Govt, Society & Environment
<b>Strengths</b>	<p>Quality of expertise and experience on GCA Board</p> <p>Quality of expertise and experience on GCA Executive Committee</p> <p>Skilled &amp; experienced academics to develop/deliver courses</p> <p>Commitment to staff professional development and scholarship</p> <p>Skilled marketing expertise and agent liaison</p> <p>A developing academic quality assurance culture</p> <p>Access to quality external academics and business consultants.</p> <p>Motivates staff.</p>	<p>Continuous improvement and quality control in academic &amp; operational matters evidenced via sound governance processes</p> <p>Archiving capability in Information management system</p> <p>Flexible content management system MOODLE</p> <p>Developed systems integration of MyGCA</p> <p>Ongoing automation of administrative processes</p> <p>Strong branding internationally</p> <p>Key contacts and processes in place to access government bodies</p>	<p>Quality eResourcing</p> <p>Technology infrastructure in place</p> <p>Commitment to use of Moodle for teaching &amp; learning activities</p> <p>Capacity to design for purpose (Moodle, MyGCA)</p> <p>Computer: student ratio is very high per GCA: University Benchmark</p> <p>Web technology utilisation</p> <p>Consistent technology resource levels throughout classrooms</p> <p>MyGCA system: 24/7 student admin access</p> <p>Revitalised efficient student payment method</p> <p>Robust student management system</p> <p>Industry leader in technological utilisation teaching environment.</p> <p>Long and successful history of successful use of IT</p>	<p>Established in education industry for 30 years (GCA as proprietor),</p> <p>Proven success.</p> <p>CBD locations</p> <p>Modern, spacious facilities and classroom size</p>

Internal environment contributing to Risk: SWOT Analysis				
SWOT	People	Processes	Technology	Govt, Society & Environment
<b>Weaknesses</b>	Manipulation by agents over student choice of provider and agent commissions	Ongoing costs	Ever-changing scenario and challenging of remaining current	Uncertainty of government policies Cost of Australia as an international education destination Challenges of monitoring the uncertainty of government change Uncertainty of Chinese government policies on allowing students to study in an Australian higher education institution (as well as those of other key education countries)
SWOT	People	Processes	Technology	Govt, Society & Environment
<b>Opportunities</b>	Increase domestic student enrolments through UBSS Diversity current offerings Develop blended subjects for UBSS - initially at PG level Further develop MyQual for gathering marketing intelligence to enhance GCA's competitiveness	Develop Alumni for gathering educational outcomes data (ie Employment, diversity of offerings) Implement of Quality Management framework by undertaking benchmarking in academic and non-academic areas	Further utilise Moodle to increase flexible delivery of existing courses Ability to enhance capability of MyGCA through ongoing user review and input.	Ability to obtain SVP assessment and Measure employability skills / value of graduates (Internship surveys and employers (alumni)

Internal environment contributing to Risk: SWOT Analysis				
SWOT	People	Processes	Technology	Govt, Society & Environment
<b>Threats</b>	<p>Changes in government migration/student visa policies</p> <p>Source country demographics changing - visa rules</p>	<p>Future of current campus location lease 5-year option</p> <p>Changes to TEQSA, and ESOS regulations governing course delivery and compliance eg. Diversification of markets</p> <p>Readiness for Random Audits: TEQSA, CRICOS</p> <p>Excessive time-consuming compliance requirements (TEQSA, ESOS) threatening business operations</p>	<p>Obsolescence of eLearning resources</p> <p>External reporting requirement PARADIGM/PRISMS/HEIMS and data integrity</p>	<p>High number of local competitors - public and private</p> <p>Private providers with SVP approval (change to independent institutions)</p> <p>Competition from established and large online education consortiums</p> <p>Universities /TAFE preferred over independent institutes of higher education (rather than Higher education providers)</p> <p>Perception that non-university HE courses are relatively new concept and &amp; therefore perceived as less desirable/of poor quality</p> <p>Qualifications from private providers perceived to hold less status/ unknown by employers</p> <p>Cost of Australia as an international education destination</p>

## D. GCA DEFINITION OF RISK

After considering the definition of risk in the Australian/New Zealand Standard on Risk Management (AS/NZS ISO 31000:2018) the following definition of risk was adopted for the purpose of theme selection:

***Risk** is defined as the ‘effect of uncertainty on objectives’. The word ‘**effect**’ represents a deviation from the expected, and it can be positive, negative or both, and can address, create or result in opportunities and threats. The word ‘**uncertainty**’ represents unpredictability, or a lack of certainty and ‘**objectives**’ are something that you plan to achieve. Normally we only seek to consider ‘**uncertainty that matters**’, an example being rain which will only matter if a class is to be held outside in the open air. GCA manages risk using the steps advocated by AS/NZS ISO 31000:2018: (1) identification, (2) assessment (where one considers the likelihood and consequence of the event occurring), (3) treatment (also known as ‘mitigation’) and (4) monitoring and review (where one determines whether the risks have been sufficiently mitigated). Consequently, **academic risk** for example, relates to the uncertainty as to whether GCA will achieve set academic objectives.*

The steps advocated by AS/NZS ISO 31000:2018 are:

### A. Identification of risk

Risks at GCA are identified in a number of ways, and include using a SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis, using a PESTLED (Political, Economic, Socio-cultural, Technological, Legal, Environmental and Demographic) analysis, referral from staff, referral from sub-committees, brainstorming, complaints, incident analyses, inspections, events that have occurred at the college or at other colleges.

### B. Assessment of risk

#### (a) Likelihood of an event occurring

Score	Code	Likelihood level
5	C	Almost certain
4	L	Likely
3	P	Possible
2	U	Unlikely
1	R	Rare

**(b) Consequence of event occurring**

Score	Code	Extent of consequence	Financial	Further Breakdown
5	E	Extreme	Insolvency or liquidation of business	Affects profits or costs by 25% Threatens business continuity or viability
4	Ma	Major	Annual NET profit after tax (\$5m)	Affects profits or costs by 10% Puts key goals in doubt
3	Mo	Moderate	\$1m	Affects profits or costs by 5% disrupts operations severely
2	Mi	Minor	\$50k	Minor impact on profit or costs Minor disruption
1	I	Insignificant	\$10k	Very minor impact on profits or costs Little disruption on operations

**(c) Risk Impact Rating (Risk evaluation)**

Risk is rated by a combination of consequence and likelihood. For example, the consequence of a particular event may be considered catastrophic but the assessment as to the likelihood of it happening may be rare. This approach would assess the particular event as a medium risk. This approach is set out in the following table. *Colour coding is used throughout the document for ease of identification of Likelihood and/or Impact*

Score	Risk Level	Description
17-25	Very High	Requires ongoing executive level oversight. The level of risk warrants that mitigation measures be analysed in order to bring about a reduction in exposure.
10-16	High	Action plans and resources required. The level of risk is likely to endanger capability and should be reduced through mitigation strategies where possible.
5-9	Medium	This level of risk should not automatically be accepted for risk mitigation but rather a cost-benefit analysis is required to determine if treatment is necessary.
1-4	Low	Treatment when resources are available. The risk should be able to be managed via existing controls and normal operating procedures.

**Risk Rating (Likelihood and Consequence) Matrix**

<b>Likelihood</b>	<b>5 (C: Almost Certain)</b>	<b>&lt;90%</b>	<b>Medium</b> (5 x 1 = 5)	<b>High</b> (5 x 2 = 10)	<b>High</b> (5 x 3 = 15)	<b>Very High</b> (5 x 4 = 20)	<b>Very High</b> (5 x 5 = 25)
	<b>4 (L: Likely)</b>	<b>60-90%</b>	<b>Low</b> (4 x 1 = 4)	<b>Medium</b> (4 x 2 = 8)	<b>High</b> (4 x 3 = 12)	<b>High</b> (4 x 4 = 16)	<b>Very High</b> (4 x 5 = 20)
	<b>3 (P: Possible)</b>	<b>40-59%</b>	<b>Low</b> (3 x 1 = 3)	<b>Medium</b> (3 x 2 = 6)	<b>Medium</b> (3 x 3 = 9)	<b>High</b> (3 x 4 = 12)	<b>High</b> (3 x 5 = 15)
	<b>2 (U: Unlikely)</b>	<b>10-39%</b>	<b>Low</b> (2 x 1 = 2)	<b>Low</b> (2 x 2 = 4)	<b>Medium</b> (2 x 3 = 6)	<b>Medium</b> (2 x 4 = 8)	<b>High</b> (2 x 5 = 10)
	<b>1 (R: Rare)</b>	<b>&lt;10%</b>	<b>Low</b> (1 x 1 = 1)	<b>Low</b> (1 x 2 = 2)	<b>Low</b> (1 x 3 = 3)	<b>Medium</b> (1 x 4 = 4)	<b>Medium</b> (1 x 5 = 5)
	<b>PROBABILITY</b>		<b>1 (I: Insignificant)</b>	<b>2 (Mi: Minor)</b>	<b>3 (Mo: Moderate)</b>	<b>4 (Ma: Major)</b>	<b>5 (E: Extreme)</b>
			<b>Consequence</b>				

**C. Treatment (also known as ‘mitigation’)**

There are a number of ways to treat the risk and GCA normally chooses one of the following:

- accept
- control
- avoid
- transfer

**D. Monitoring and review.**

This is where one determines whether the risks have been sufficiently mitigated. If not, then they will be reconsidered, that is steps 2 – 4 will be repeated. This will be repeated until the risk has been sufficiently mitigated.



## E. GCA RISK REGISTER

1.0 Regulatory Compliance								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
1.1 ESOS Act	Inability to implement and evidence Standards	Potential loss of CRICOS registration to deliver to international students	Rare	Extreme	Medium	Ongoing monitoring by the Office of the Deputy Vice Chancellor, UBSS measuring against audit and Threshold Standards	DVC and CEO	Audit completed each trimester
1.2 ESOS Act	Inability to promptly respond to an external audit	Potential loss of CRICOS registration to deliver to international students	Unlikely	Major	Medium	Ongoing monitoring by the Office of the Deputy Vice Chancellor , UBSS	DVC and CEO	Audit completed each trimester
1.3 HESA & Guidelines	Inability to implement and evidence Guidelines	Potential sanctions or deregistration by TEQSA	Unlikely	Major	Medium	Ongoing monitoring by the Office of the Deputy Vice Chancellor and measuring against the Threshold Standards	DVC and CEO	Watching brief for changes
1.4 TEQSA Threshold Standards	Failure to meet and evidence Threshold Standards for re-Registration for HE and ELICOS courses	Potential deregistration to offer Higher education courses	Possible	Moderate	Medium	Each trimester an audit committee consider compliance against the <i>New</i> Threshold Standards	DVC and CEO	Ongoing – at least once a year an audit against the new TS is undertaken
1.5 Workplace Health & Safety (WHS) Act 2011	Failure to maintain WHS standards for students and staff	Potential legal action/medical costs; closure of premises	Unlikely	Moderate	Medium	Ensure WHS Committee and processes are maintained	DVC and CEO	Quarterly formal WHS Audits conducted

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
1.6 Records Management	Failure to maintain staff and student related materials for required timeframes	Inability to meet audit requirements; produce records/evidence for regulatory bodies, etc.	Unlikely	Moderate	Medium	Records are maintained via MyGCA or Moodle per GCA Records Management Policy based on the NSW State Records Act. All documentation is maintained in the M Drive.	DVC and CEO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
1.7 CPA & IPA Accreditation Standards	Failure to meet /maintain accreditation standards stipulated by professional bodies	Potential loss of professional accreditation, equalling loss of parity with other providers in the market	Possible	High	Medium	<p>Program Director - Bachelor of Accounting to ensure compliance and maintain relationship with CPA and IPA (as well as CA ANZ)</p> <p>Program Director – Master of Business Administration to ensure compliance and maintain relationship with CPA and IPA (as well as CA ANZ)</p>	DVC and CEO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
1.8 HEIMS (High Education Information Management System) deadlines not met.	Non-compliance with Federal Government Higher Education Fee help licence	Potential sanctions or loss of FEE HELP licence from Department of Education	Unlikely	Major	Medium	Process maintained by CIO and JW - supported by the Office of the Deputy Vice Chancellor, UBSS	DVC and CEO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
1.9 TEQSA performance and timing of responses*	Failure to move quickly in an environment where speed is essential	Potential and significant loss of business and income	Possible	High	Medium	Process and interface managed by the Office of the Deputy Vice Chancellor	DVC and CEO	The matter is of ongoing concern based on the appalling performance and time delays by a Regulator that appears to not be coping. Vigilant management is required
1.10 Understanding and applying hybrid learning to UBSS	Inability to offer face to face options simultaneously with online classes.	Non-compliance with the ESOS Act	Unlikely	Moderate	Medium	UBSS will provide face to face delivery and online delivery (hybrid) at all campuses.	DVC and CEO	The matter is of high priority and the school is well informed on the matter of hybrid options.

\*<https://www.teqsa.gov.au/sites/default/files/aps-employee-census-2022-teqsa-highlights-report.pdf?v=1667873122>

<https://www.teqsa.gov.au/sites/default/files/aps-employee-census-2021-teqsa-highlights-report.pdf?v=1638219902>

2.0 External Market								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
2.1	Failure of NUHEPs to be included with universities for low-risk rating within the Simplified Student Visa Framework (SSVF)	Significant loss of market share to low rated SSVF approved providers	Almost certain	Insignificant	Low	GCA (including UBSS) is maintaining focus via HEPP_QN and iHEA membership  Careful management of the offshore market	D – A,C & O	Currently Risk Level 2 since December 2022
2.2	Reliance on international students as primary source of enrolment and revenue	High risk revenue source that is reliant on government policy and affordability of Australia as a study destination	Possible	Extreme	Medium	FEE HELP has been established for Domestic HE with the intention of diversifying the student pool	D – A,C & O	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
2.3	Manipulation by agents over student's choice of provider	Decline in international student numbers to competitors offering better commissions or more streamlined admin	Possible	Major	Medium	High level of attention on communication with and visitation to agents	D – A,C & O	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
2.4	Competition from private HEPs located in Sydney offering comparable courses	Greater choice for prospective students and decline in GCA enrolments	Unlikely	Moderate	Medium	Maintain high awareness and remain competitive in offerings and pricing	D – A, C & O	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
2.5	Facilitation of admission of students by agents	Misinformation provided to students; potential breaches to admissions criteria	Rare	Extreme	Medium	Admissions Policies specify delegations to Agents. GCA Admissions Centre to conduct document verification for academic and ELP credentials and implementation of Agent Monitoring Policy.	D – A, C & O	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
2.6	Competition from public universities and satellite campuses located in Sydney with comparable HE courses	Greater choice for prospective students and decline in UBSS numbers. Impact of uncapped University enrolments	Rare	Major	Medium	Maintain high awareness and remain competitive in offerings and pricing,	D – A, C & O	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
2.7	Competition from online education consortia (Think; Open Unis Australia; Open Colleges, Study Group)	Greater choice for prospective students and decline in GCA enrolments	Possible	Moderate	Medium	GCA (including UBSS) to maintain interest and vigilance in alternative delivery (ie blended mode).  GCA now offers MBA online to domestic and offshore students.	D – A, C & O	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
2.8	Desirability of Castlereagh St (Sydney) as a study location	Reputation of location may affect choice of study	Rare	Insignificant	Low	Relocation to Sydney CBD	D – A, C & O	Downgraded on November 23, 2017
2.9	Loss of key staff members	The loss of key staff members with company knowledge	Possible	Minor	Low	A succession plan is in place to ensure key staff are either maintained or a succession plan is in place	D – A, C & O	Ongoing with an annual review
2.10	Currency of promotional material	Breach of compliance of Standard 1 National Code 2018	Rare	Minor	Low	Promotional material is reviewed by Program Directors and Deputy Vice Chancellor annually, signed off by Director – Admissions, Compliance and Operations.	D – A, C & O	Ongoing with annual review

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
2.11	Uncertainty of foreign government policies on allowing students to study in an Australian higher education institution	Significant decrease in the number of students and sales revenue.	Possible	Moderate	Medium	<p>Continuous market research by the Marketing department to keep updated on foreign government policy changes.</p> <p>New market development initiatives to expand student recruitment regions.</p>	D – A, C & O	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

3.0 Academic & Student Matters								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.1	Quality of courses articulating into UBSS	Maximise appropriate fit	Possible	Moderate	Medium	Strengthened credit transfer policy that is regularly reviewed. Database of courses considered suitable and non-suitable depending on historical experience.	ED	Reviewed quarterly
3.2	<p>Weak academic intervention process for non-performing students.</p> <p>TEQSA Risk Assessment Factor 2 Attrition, Standards 1.1, 1.2, 1.2, 3.1, 5.3, 6.3, 7.2 and National Code 6.</p> <p>TEQSA Risk Assessment Factor 3 Progression, Standards 1.2, 1.3, 3.1, 5.3, 6.3 and National Code 6.</p> <p>TEQSA Risk Assessment Factor 4 Completions, Standards 1.3, 4.2, 5.3, 6.3.</p>	High attrition, Low progression and Low Completion rates and non-compliance with ESOS Act and TEQSA	Rare	Major	Medium	<p>Strengthened processes including early intervention, invigilated examinations, provision of support workshops. Intervention can be made by key stakeholders including students. List of relevant students flagged as a watching brief.</p> <p>Progression, attrition, completion all reported to Academic Senate on a trimester basis. Strategies and interventions recommended and implemented. Normal and adjusted attrition used.</p>	ED	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly.



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.3	English Language Proficiency (will this be the same level if we are Level 1 on the SSVF)	Unsatisfactory academic progression	Unlikely	Major	Medium	Selection processes comply with HESF proficiency rules and are coupled with ongoing support  Compliance Director Trimester audit report of Admissions	ED	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly  Trimester review by Compliance Director
3.4	Regular maintenance of programs, subjects and Academic Integrity  TEQSA Risk Assessment Factor 7 Senior Academic Leadership, Standards 3.2, 5.2, 5.3. and National Code 11.	Assurance and re-accreditation  Program development is not maintained and new programs not developed	Unlikely	Moderate	Medium	Currency of programs and courses maintained  Monitoring and management of academic integrity  Continued use of external advisors and independent reviewers  Course Advisory Committee to review new programs  Senior Academic Leaders employed and have oversight of programs.	ED	Annual Reviews conducted  Academic Integrity Committee operations  Management of Academic Integrity is best viewed at –  <a href="https://www.ubss.edu.au/media/1836/academic-integrity-at-ubss.pdf">https://www.ubss.edu.au/media/1836/academic-integrity-at-ubss.pdf</a>  Course Advisory Committee operations

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.5	Maintaining eResources	Impact on support for students	Rare	Moderate	Low	<p>Maintaining high levels of eResourcing including eLibrary (ongoing expansion) and LMS.</p> <p>The EZProxy system is used at GCA to allow transparent e-library access from any location.</p> <p>Ensuring that before the beginning of each subject that the lecturer reviews, and updates, the eResources for their subject.</p> <p>UBSS conducts regular audits on all e-resource content to ensure its compliance with copyright legislation.</p>	ED	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly.</p>
3.6	Failure of students to complete within CoE due to poor timetabling and load enforcement	Breach of international student visa conditions; student may transfer to other providers with flexible timetabling	Unlikely	Major	Medium	<p>Maintaining careful record of progression and students satisfying VISA conditions. Caps on number of subjects – depending on student application and monitoring of student capabilities. Early Warning Letters at first assessment, Academic Warning Letters and Student Support provided to students.</p>	ED	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly.</p>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.7	Academic quality assurance compromised due to an absence of benchmarking,	Negative impact on TEQSA accreditation outcomes	Rare	Major	Medium	Proactive involvement in a range of local, national and international benchmarking activities. Membership to higher education industry bodies IHEA and HEPP-QN to conduct industry wide benchmarking.  Continued use of external advisors and independent reviewers	ED	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly  An overview of the UBSS benchmarking effort is best viewed at: <a href="https://www.ubss.edu.au/media/1185/benchmarking-february-2020.pdf">https://www.ubss.edu.au/media/1185/benchmarking-february-2020.pdf</a>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.8	Failure to create positive esteem and confidence across the GCA student body	Students retention problems; negative impact on external reputation	Unlikely	Moderate	Medium	<p>Focus on success stories and profiling of institution - especially externally (ie QILT)</p> <p>Staff continually reminded to focus on positive student esteem</p> <p>Student surveys to check to see if GCA, and staff, are assisting the maintenance and enhancement of positive esteem</p>	ED	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly</p> <p>An overview of Student Support is provided at:  <a href="https://www.ubss.edu.au/media/1772/student-support-at-ubss.pdf">https://www.ubss.edu.au/media/1772/student-support-at-ubss.pdf</a></p>
3.9	Packaged pathway not properly managed	Student expectations mismanaged	Unlikely	Moderate	Medium	<p>Management of pathways.</p> <p>Independent review as to the effectiveness of the management</p>	ED	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly.</p>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.10	Lack of external assessment moderation to ensure quality assurance in assessments and standards.	Assessment items not moderated against subject learning outcomes which may impact rigour and quality of courses.	Rare	Major	Low	Adherence to Assessment Moderation Policy. All lecturers to be made aware of relevant policy and procedures.	ED	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly.
3.11	Poor QA and monitoring of Third-Party Agreements (TPAs)	TPAs not established and monitored with provision for effective risk management, and QA/delivery provisions	Rare	Moderate	Low	No third-party agreements currently in place Mechanism set up so that when there are TPAs they will be monitored	ED	Currently no third-party arrangements in place. Quarterly review to determine if there are any TPAs.
3.12	Student Harassment onsite	Students under duress	Unlikely	Moderate	Medium	Policies and procedures (including code of conduct) in place, student orientation is used to discuss issue, a designated employee is in place to support students. The Sexual Assault and Sexual Harassment Committee (SASH) to be vigilant of student harassment.	ED	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the UBSS Academic Senate, GCA Board and relevant standing committees accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
3.13	<p>Graduate Satisfaction and Graduate Destination</p> <p>TEQSA Risk Factor 5 Graduate Satisfaction, Standards 1.4, 2.3, 2.4, 5.3, 7.2 and National Code 6.</p> <p>TEQSA Risk Factor 6 Graduate Destination, Standards 1.2, 3.1, 5.3, 6.3 and National Code 6.</p>	<p>Low level of graduate satisfaction, lack of pathways to work and study. Poor graduate destinations</p>	Possible	Moderate	Medium	<p>Conduct annual graduation surveys for satisfaction and destination.</p> <p>Conduct webinars, workshops, guest speakers of work destinations</p> <p>Alumni network commenced 2021</p>	ED	<p>Annual graduation surveys conducted. Work destination seminars and training, alumni network commencing run by Director of CFE</p>
3.14	<p>Testamurs, AHEGS and other documentation not secured</p>	<p>Physical blank testamurs fall into hands of students to make false documents.</p> <p>Cyber security of duplicated documents</p>	Rare	Major	Low	<p>Testamurs are kept in safe.</p> <p>Watermarks and other security items on documents</p>	ED	<p>All security measures are in place.</p>

4.0 Human resources (Staffing, and WHS)								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
4.1	Inability to recruit & retain appropriately qualified teaching staff	Poor teaching/ academic standards and breach of accreditation standards	Possible	Major	Low	<p>Maintaining high levels of staff and ensuring AQF+1 or equivalent status.</p> <p>Staff surveys completed and monitored every trimester.</p> <p>Annual performance review of academic and administrative staff.</p> <p>An incentive scheme for staff who score well in surveys.</p>	DVC & CEO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p> <p>In a recent recruitment drive (March 2021), we were overwhelmed with applications (80 applications for two academic positions).</p>
4.2	Staff not recruited who embody the corporate values and mission of GCA	Staff expectations not aligned with those of GCA; poor job retention levels	Unlikely	Minor	Low	<p>Ensure appropriate selection of staff. Staff surveys completed and monitored every trimester.</p> <p>6-month probation</p>	DVC & CEO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
4.3	<p>High student: staff ratios (SSR) as a result of increasing enrolments</p> <p>TEQSA Risk Assessment Factor 1 Student Load, Standards 1.1, 1.3, 5.3 and National Code 2.</p> <p>TEQSA Risk Assessment Factor 8 Student to Staff Ratio, Standards 3.2, 5.3 and National Code 11.</p>	<p>Large class sizes and compromised learning environment; compliance breaches</p>	Unlikely	Moderate	Medium	<p>Ensuring SSR is managed and monitored. SSR calculated and monitored in first 4 weeks of trimester. Apply UBSS Teaching and Learning Plan 2021-2023 and UBSS Workforce Plan 2021-2023 to ensure SSR maintained at suitable range.</p> <p>Monitor every trimester student numbers including commencement, continuing and completions.</p> <p>Lower enrolments during COVID, to be monitored as enrolments increase</p>	DVC & CEO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
4.4	Balance of part-time and full-time staffing  Permanent FT, PT, Casual and Contract  TEQSA Risk Assessment Factor 9 Casual Work Contracts, Standards 3.2, 5.3, and National Code 11.	Access to staff becomes an issue for students	Unlikely	Major	Medium	Ensuring balance is considered without diminishing quality and experience  Full time to casual contracts data collected on trimester basis. Monitored to keep within Strategic Plan KPIs	DVC & CEO	Ongoing – evidenced in SFUs and QILT outcomes  Trimester Reports  Strategic Plan KPIs monitoring trimester basis.
4.5	HR impact on closures for Central and Metro	Impact on individual staff	Likely	Major	Medium	Employing the services of AFEI to ensure the closure of Metro and Central colleges are followed legally and efficiently.	DVC & CEO	13 December 2018
4.5	All new staff to complete a detailed Staff Induction.	Failure to meet TEQSA requirements and non-compliance, staff disruption and a breach of WHS guidelines.	Rare	Major	Medium	Ensuring uniformity, consistency and staff retention.	DVC & CEO	A refreshed on boarding process has been put in place.
4.6	Adequate functionality is provided for both staff (working from home and working on campus) operational structures	Failure to ensure adequate infrastructure that would impact on productivity, WHS and staff welfare	Rare	Major	Medium	Ensuring appropriate infrastructure is in place.  Monitoring and safety checks on home working environments (WHS Working from Home checklist)	DVC & CEO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
4.7	Key staff leaving	Lack of succession planning can lead to loss of information, skills and reputation	Possible	Major	Medium	Team sharing of critical information. Delegation of work of staff for where we know of any pending resignations/retirement	DVC & CEO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

5.0 Finance & Sustainability								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
5.1	Reliance on international student market as primary revenue source across UBSS and other Colleges	Changes to government policy may reduce applications and enrolments	Likely	Moderate	Medium	Maintain interest in market diversity and domestic revenue streams.	FC	Domestic student MBA products, Executive Delivery and Online, have been developed and are now in the market.
5.2	Liquidity Risk	Insufficient operating surpluses or cash reserves to meet future financial commitments.	Unlikely	Major	Medium	Maintain judicious management of cash flows. Twelve month cash flow forecasts prepared regularly. Ongoing cash flow planning combined with working capital optimisation. Maintenance of liquidity buffer.	FC	The matter is of distinct concern and is reviewed accordingly.  Cash flow forecasts and liquidity analyses are reported to the GCA Executive Team on a monthly basis and to the Board at each meeting or on request.



5.3	Price Risk	Capital losses are incurred on managed or exchange traded funds.	Possible	Minor	Low	<p>Price sensitive investments are a limited proportion of total investments and restricted to lower risk instruments.</p> <p>The investments are overseen by professional investment advisors.</p>	FC	<p>The matter is of ongoing concern and is reviewed accordingly.</p> <p>Investment reports are issued to the GCA Executive Team on a monthly basis and to the Board accordingly.</p> <p>A Cash and Investment policy is in development.</p>
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Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
5.4	Intercompany loans to related companies not repaid	Potential write-off of loan in GCA	Possible	Moderate	Low	Maintain quality management of finances	FC	The matter is of ongoing concern and is reviewed accordingly. Quarterly reviews are conducted by the ARC and reported to the GCA Board accordingly.
5.5	Failure to continually automate staff and student administrative procedures using available technology to reduce overhead costs	Increased employment expenses and negative impact on profitability	Rare	Insignificant	Low	Maintain vigilance in automation and eSolutions	FC	The matter is of ongoing concern and is reviewed accordingly. Quarterly reviews are conducted by the ARC and reported to the GCA Board accordingly.
5.6	Inability to comply with the ESOS Act and requiring safeguard of student fees paid in advance and student refunds	GCA unable to appropriately refund students within 28 days and manage the prepaid fees designated bank account	Unlikely	Moderate	Low	Establishment of designated bank account in accordance with ESOS Act  Tuition Protection Scheme (TPS) in place	FC	June 2012  Annual Renewal

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
5.7	Poor documentation and procedures related to corporate succession planning	Procedures not available in case of critical illness, death or incapacitation of CEO in terms of business continuity across GCA.	Possible	Moderate	Medium	Maintain focus on succession planning and sharing of information across the company	FC	The matter is of ongoing concern and is reviewed accordingly. Quarterly reviews are conducted by the ARC and reported to the GCA Board accordingly.
5.8	Fraud	Financial misappropriation	Possible	Moderate	Medium	Internal controls including delegating authorities; separation of duties; and two-factor authentication for payment approval.	FC	The matter is of ongoing concern and is reviewed accordingly. Quarterly reviews are conducted by the ARC and reported to the GCA Board accordingly.

6.0 Technical (Also see Appendix 1)								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.1	Failure / performance degradation of internet connection between GCA and Amazon Cloud	Inability of GCA staff and students to access any IT resources	Unlikely	Major	Medium	<p>Two independent internet connections exist between the main GCA site (UBSS) and the Amazon EC2 cloud environment. Each connection is capable of independently handling the required traffic load.</p> <p>All GCA traffic can be instantly switched from one connection to the other if necessary.</p> <p>All network routing is automatically updated when connections are switched.</p> <p>IT staff are instantly alerted when a connectivity issue exists on either connection. Ping time and packet loss between all GCA sites and Amazon EC2 are constantly monitored.</p> <p>IT staff are instantly alerted if ping time or packet loss fall outside of acceptable limits.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.2	Failure / data corruption of one or more GCA servers	Inability of GCA staff and students to access affected IT resources	Unlikely	Major	Medium	<p>All GCA servers (with the exception of the firewall) reside within the Amazon EC2 Cloud Computing environment.</p> <p>EC2 servers reside in a secure, environmentally controlled off-site data centre. EC2 servers are automatically restarted on new hardware in the event of a hardware failure (EC2 Instance Auto-Recovery). All volumes attached to all EC2 servers have data snapshots taken every day.</p> <p>One week of daily snapshots are taken (rolling window), and independent snapshots are taken on Jan-1 and Jul-1 each year. Any server snapshot can be used to restore a server to the exact state that it was at when the snapshot was taken.</p> <p>A server can be restored from a snapshot in around 10 minutes. EC2 snapshots are automatically mirrored across different EC2 Availability Zones and data centres, eliminating a single point of failure.</p> <p>All database instances used by GCA (with the exception of Oracle) are located within the fault-tolerant Amazon RDS managed database system.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.2 (continued)						<p>The Oracle instance used by GCA is located within the Amazon EC2 environment.</p> <p>Amazon have a Service Level Agreement which states that they will maintain their systems to achieve a minimum of 99.99% uptime each month.</p> <p>All GCA databases have daily snapshots taken, stored with in the fault-tolerant Amazon S3 storage system. Due to the low cost of S3 storage, all snapshots are retained indefinitely, regardless of their age.</p> <p>An entire copy of all server snapshots is stored in an alternate geographical AWS region (US) in the event that the Sydney region becomes completely inaccessible.</p>		



6.3	Failure of GCA servers / workstations to receive timely system updates	<p>GCA servers / workstations remain vulnerable to security flaws that have already been patched by the software vendor</p> <p>These security flaws could be used to cause a denial of service, or the unauthorised access to GCA data</p>	Possible	Moderate	Medium	<p>Most GCA servers and workstations operate on operating systems that are currently supported by the software vendor, and therefore receive regular updates (Windows 10 LTSC).</p> <p>All workstations at GCA use the LTSC (Long Term Servicing Channel) edition of Windows 10. This edition ensures a consistent operating environment, and guarantees a 10-year supply of security updates.</p> <p>All GCA systems deployed since October 2022 use the latest build of Windows 10 LTSC (21H2).</p> <p>Servers that run the unsupported Windows Server 2008 R2 operating system continue to receive critical patches by the 0Patch system.</p> <p>0Patch is now deployed to all GCA workstations and servers (regardless of version) to ensure protection against 0-day exploits and exploits that Microsoft chooses to NOT fix.</p> <p>All GCA servers and workstations that operate on the Windows platform have updates for Microsoft software deployed via Windows Server Update Services (WSUS).</p> <p>IT staff are notified when new updates are available for deployment.</p> <p>IT staff regularly check WSUS to see if any updates are pending, or any update installation failures were reported.</p> <p>IT staff are given an up to date count of the number of systems that have not had an update installed in the last 30 days.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
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						<p>A custom script runs every 60 seconds, which alerts IT staff if any running system has not installed the latest approved WSUS updates.</p> <p>A custom script runs every 60 seconds, which alerts IT staff when new updates have been released by Microsoft into WSUS. IT staff can then approve the updates after testing.</p>		
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<p>6.3 (continued)</p>					<p>A custom script runs every 60 seconds, which alerts IT staff if any running system does not have the latest AV definitions installed, or has not reported to the McAfee ePO server in the last 24 hours.</p> <p>Other software (Dropbox, Google Chrome, Firefox, Adobe Acrobat, etc.) auto-updates without any user intervention.</p> <p>The GCA WSUS and ePO servers are externally accessible via a VPN, allowing GCA systems that are operating outside of the internal network to continue to receive updates.</p> <p>The very latest version of the Asterisk PBX is now in use (version 16) which adds automatic notification of available system updates (applies both to Asterisk itself and the underlying Linux operating system).</p> <p>All company-issued mobile devices (iOS / Android) are configured with the Microsoft InTune Endpoint Manager.</p> <p>This allows the status of the device to be monitored to ensure that the latest OS updates have been installed.</p> <p>IT staff (and the user of the device) are alerted if an available update has not been installed.</p> <p>All workstations at GCA use the LTSC (Long Term Servicing Channel) edition of Windows 10. This edition ensures a consistent operating environment, and guarantees a 10-year supply of security updates.</p>	
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Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.4	Software updates to GCA servers / workstations causing a system failure or adversely affecting system operation	Inability of GCA staff and students to access affected IT resources	Rare	Moderate	Low	<p>All GCA servers and workstations that operate on the Windows platform have updates deployed via Windows Server Update Services (WSUS).</p> <p>All updates made available within WSUS must be approved by IT staff before they are deployed.</p> <p>Updates are deployed onto a test PC for testing prior to deployment.</p> <p>Server snapshots are taken prior to any updates being deployed. The server can then be rolled back its previous state in the event that the update causes a failure.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly.</p> <p>Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.5	Failure / data corruption of one or more GCA workstations	<p>Inability of one or more GCA students or staff to access any IT resources</p> <p>If a classroom workstation fails, inability of the lecturer to carry out their teaching</p>	Possible	Minor	Medium	<p>One standardised Windows disk image is used for all Windows based workstations at GCA (Windows 10 LTSC).</p> <p>Workstations can be swapped with others without affecting functionality.</p> <p>Staff and student workstations can be swapped without affecting functionality.</p> <p>Any configuration differences between staff, student, and classroom workstations are automatically handled via Windows Group Policy.</p> <p>Spare pre-configured workstations are ready to be swapped in place of a defective one.</p> <p>No GCA data is stored on the local hard disk of any workstation (apart from roaming profile caches and the local user profile).</p> <p>Failure of a workstation will therefore never result in data loss.</p> <p>Some workstations are thin-client terminals, which have no moving parts. This dramatically reduces the likelihood of a hardware failure.</p> <p>Thin-client terminals are all remotely configured from a central server, resulting in quick deployment.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.6	Failure / data corruption of an on-site GCA firewall server	Inability of all GCA staff and students at the relevant site to access any IT resources	Unlikely	Major	Medium	<p>Only one live server exists at each GCA site.</p> <p>Each live on-site server is covered by a 24x7x365 hardware maintenance plan supplied by Interactive Systems Availability. This maintenance plan covers all hardware components of the server, and ISA guarantee a maximum 2-hour response time.</p> <p>At the main GCA site (UBSS), a second server exists, running the Veeam Replication system. This replication server constantly keeps a snapshot of the configuration of the live servers at all other GCA sites (including MyQual).</p> <p>Historical snapshots are also kept (7 snapshots at 24 hour intervals on a rolling window), allowing a previous server snapshot to be used if the data corruption occurs. If any on-site server were to irreparably fail, the replication server could be switched into the place of the live server, allowing normal operation to resume.</p> <p>The main GCA firewall server snapshot is also replicated to the off-site MyQual server so that this server can be recovered in the event that the entire GCA site is lost.</p> <p>The reverse is also true – the MyQual firewall server snapshot is replicated to the GCA server so that this server can be recovered in the event that the entire MyQual site is lost.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.6 (continued)						<p>The on-site server rooms are fitted with temperature and humidity monitoring devices. IT staff are alerted if the temperature or humidity exceed normal levels.</p> <p>The hardware status of all on-site servers is constantly monitored, alerting IT staff when any status error occurs.</p> <p>Each on-site server features redundant power supplies, and RAID disk arrays (with at least one hot spare).</p> <p>The hot-spare is automatically utilised in the event of a disk failure, and IT staff are alerted.</p> <p>All configuration information for the on-site server (DHCP, file shares, firewall configuration) is stored within Amazon EC2.</p> <p>This allows for the on-site server to be manually rebuilt as a last resort.</p> <p>The age of the configuration backup file is monitored to ensure that the most recent backup is never older than 24 hours.</p> <p>A UPS is used to maintain power to the on-site sever, and all core network switches in the event of a power failure or brownout.</p> <p>The UPS status is constantly monitored, alerting IT staff when the UPS has activated, or when it requires a battery replacement.</p> <p>The UPS internal temperature is also monitored to ensure that it remains within normal limits.</p>		



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.7	Failure of periodic data export tasks to execute successfully	<p>Inability of GCA databases to be restored to previous versions if required.</p> <p>Inability of GCA databases to be recovered in the event of data corruption.</p>	Unlikely	Moderate	Medium	<p>A custom script runs every 60 seconds, checking for the existence of backup files associated with all GCA database instances.</p> <p>The script also checks the age of the most recent backup. As each backup is made once a day, the latest backup should not be more than 24 hours old.</p> <p>If the backup is missing, incomplete, or too old, IT staff are alerted.</p> <p>The age of the configuration backup file for the on-site firewall is monitored to ensure that the most recent backup is never older than 24 hours.</p> <p>The age of the configuration backup file for the on-site file server mount point is monitored to ensure that the most recent backup is never older than 24 hours.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.8	Failure of periodic Amazon EC2 server snapshots tasks to execute successfully	<p>Inability of GCA servers to be restored to previous versions if required.</p> <p>Inability of GCA servers to be recovered in the event of data corruption.</p>	Unlikely	Moderate	Medium	<p>A custom script runs every 60 seconds, checking for the existence of snapshots associated with all Amazon EC2 servers.</p> <p>The script also checks the age of the most recent snapshot. As each snapshot is generated once a day, the latest snapshot should not be more than 24 hours old.</p> <p>If the snapshot is missing, incomplete, or too old, IT staff are alerted.</p> <p>The number of snapshots for each volume are also checked - if too few exist, IT staff are alerted.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

6.9	Malicious / unauthorised software executing on any GCA workstation or server	<p>Loss or corruption of data on GCA workstations / servers</p> <p>Data being encrypted by malicious software and held for ransom (ransomware)</p> <p>GCA workstations / servers being used as peers in a botnet (denial of service attacks)</p>	Rare	Moderate	Low	<p>All users of all GCA systems run as a Windows limited user. No staff run as an Administrator or Power User.</p> <p>Only IT staff have Administrative rights, and they are only used when required.</p> <p>IT staff run as a limited user by default, and elevate to Administrative rights via User Account Control only when required.</p> <p>IT staff are immediately alerted if any new Administrator level account is created on any server or workstation.</p> <p>Any application that is not pre-installed by an Administrator cannot be executed.</p> <p>Any DLL library that is not pre-installed by an Administrator cannot be executed.</p> <p>Any application that resides on any removable media (including CD / DVD / USB / external HDD) cannot be executed.</p> <p>Applications cannot be executed from any folder to which a standard Windows user has write access (this includes the user profile folder)</p> <p>McAfee VirusScan Enterprise is installed on every Windows based GCA workstation and server.</p> <p>McAfee VirusScan Enterprise is configured to scan all executable and document files for both read and write access across all drives.</p> <p>McAfee VirusScan Enterprise is configured to scan the memory of each</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
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						workstation and server for malicious software and rootkits every 60 minutes. Students to be made aware of online hygiene and caution required		
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<p>6.9 (continued)</p>					<p>McAfee VirusScan Enterprise is configured to scan the entire boot drive of every workstation once per week.</p> <p>All GCA workstations and servers check every 30 minutes (and immediately after startup) for updated AV definitions from McAfee.</p> <p>A custom script runs every 60 seconds, which alerts IT staff if any running system does not have the latest AV definitions installed, or has not reported to the McAfee ePO server in the last 24 hours.</p> <p>IT staff are alerted if any workstation or server generates a McAfee AV detection event.</p> <p>New systems using the Windows 10 LTSC 21H2 build have the updated McAfee Endpoint Protection system installed.</p> <p>This is the successor to VirusScan Enterprise, and includes the following new features:</p> <ul style="list-style-type: none"> <li>• Local website and search result filtering</li> <li>• Local exploit detection and mitigation</li> <li>• Adaptive threat mitigation utilising the McAfee Global Threat Intelligence service</li> </ul> <p>All Windows based workstations and servers receive timely updates from Microsoft (via WSUS), reducing the likelihood of a remote code execution exploit.</p>	
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					<p>A custom script runs every 60 seconds, which alerts IT staff if any running system has not installed the latest approved WSUS updates.</p> <p>A custom script runs every 60 seconds, which alerts IT staff when new updates have been released by Microsoft into WSUS. IT staff can then approve the updates after testing.</p> <p>All GCA servers have data snapshots taken daily (see section 6.2). This allows for corrupted / encrypted data to be rolled back to an older version.</p> <p>Data Execution Prevention is enforced on all GCA workstations and servers in the most secure mode (Always-On). This protects both 32 and 64 bit code.</p>		
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<p>6.9 (continued)</p>					<p>All GCA workstations have their web traffic filtered by the Cisco Umbrella (OpenDNS) filtering system.</p> <p>This system updates in real time, and blocks malicious websites from being loaded, along with websites that fall into categories that are considered to be undesirable.</p> <p>A custom script runs every 60 seconds, which alerts IT staff if the network DNS resolvers are not using OpenDNS. Alerts are also sent out if the incorrect web filtering rules are being used within OpenDNS.</p> <p>Software Restriction Policies have been defined for all GCA workstations, whereby the execution of all software is blocked by default – exclusions are then added for the software that is required.</p> <p>This includes the execution of unauthorised DLL libraries in addition to EXE files.</p> <p>All E-mail traffic to and from any GCA address is protected by the Office 365 Advanced Threat Protection system. This system scans all email links to identify those that are malicious, and also monitors email traffic to identify emails that impersonate key GCA staff members.</p> <p>All GCA workstations can only access the servers and ports that are required for normal operation. This limits the effect of any malicious software that does manage to execute on a workstation.</p>		
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						<p>Any Microsoft Office add-in that is not approved by an administrator cannot be loaded into any GCA system.</p> <p>Any Microsoft Office macro that is not stored in a secure location (defined by an administrator) cannot be executed.</p> <p>Any browser extension (Chrome, Firefox, Edge) that is not approved by an administrator cannot be loaded into any GCA system.</p>		
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6.10	GCA servers / network infrastructure not having adequate capacity to support the prevailing load	<p>Loss of performance for affected GCA IT resources</p> <p>Inability of GCA staff and students to access affected IT resources</p>	Unlikely	Moderate	Medium	<p>Key performance metrics of all GCA servers are constantly monitored (CPU usage, memory usage, ping time, packet loss, disk usage, disk queue length, network bandwidth, TCP packet retransmission rate, event log errors)</p> <p>IT staff are alerted when any metric exceeds a predefined warning threshold, and again if the metric exceeds a predefined alarm threshold.</p> <p>All GCA servers reside within Amazon EC2, and can therefore have their performance levels changed at any time without any loss of data. Server disk capacity and performance can be expanded at any time without incurring any downtime. Server CPU and memory capacity can be changed at any time (downtime is incurred). Software-specific performance metrics are also monitored on all GCA servers to indicate software level performance issues.</p> <p>GCA Remote Desktop Servers operate in a load balanced server farm, allowing capacity to grow and shrink in accordance with demand.</p> <p>All GCA VLANs use bandwidth limiting / bandwidth reservation to ensure that bandwidth is always available for key GCA systems.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>
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Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.10 (continued)						<p>All GCA database instances are monitored for the number of active and rejected connections to ensure that the connection limit is not reached.</p> <p>All GCA database instances are monitored for any wait or lock conditions to ensure that database transactions are not delayed.</p> <p>The memory usage and thread count for the main Oracle database instance are monitored.</p> <p>The CPU utilisation, memory utilisation, fan status and port bandwidth usage for all network switches is monitored via SNMP. Alerts are sent out if any parameter exceeds normal values.</p> <p>All network switches are monitored for any packet transmission errors (CRC, packets dropped, jabber, undersize / oversize packets). Alerts are sent out if any of these conditions are detected.</p> <p>The CPU utilisation, memory utilisation and number of associated clients for all wireless access points is monitored via SNMP. Alerts are sent out if any parameter exceeds normal values.</p> <p>All GCA workstations use Solid-State Disks (SSDs) as their boot drives to ensure good system performance.</p>		

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.11	GCA servers not running key system services / processes	Inability of GCA staff and students to access affected IT resources	Rare	Moderate	Low	<p>Current running processes and system services are monitored on all GCA servers, to ensure that the services responsible for providing the applicable IT resources are active.</p> <p>IT staff are alerted when any monitored process or system service is not running.</p> <p>Critical processes / system services are automatically restarted in the event of a failure.</p> <p>Persistent database connections from key system processes are monitored to ensure that they are re-established in the event of a database connection issue or outage.</p> <p>The scheduled Moodle Cron task is monitored for all Moodle instances to ensure that it has run on schedule.</p> <p>The card printer database is checked every 60 seconds to ensure that is has correctly synchronised with the main myGCA database (daily synchronisation task).</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.12	Unauthorised access to physical infrastructure (server room)	Physical damage to IT infrastructure  Theft of IT related equipment  Inability of GCA staff and students to access affected IT resources	Unlikely	Major	Medium	The server rooms at all GCA sites have no signage nor windows to indicate the contents / purpose of the room.  The server rooms at all GCA sites are physically secured by two Bi-Lock locks (one of which is a deadbolt).  The server room at the UBSS site has an internal camera which records all detected motion.  IT staff are immediately alerted if motion is detected on the camera, and snapshots are sent along with the alert.	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

<p>6.13</p>	<p>Unauthorised access to internal GCA network (rogue devices)</p>	<p>Loss of connectivity between affected GCA devices and the network</p> <p>A heightened risk of attacks being launched against GCA servers</p> <p>Data loss or corruption within affected GCA systems</p>	<p>Unlikely</p>	<p>Moderate</p>	<p>Medium</p>	<p>All DHCP assigned network addresses must have a pre-set reservation, locking an IP address to a hardware address.</p> <p>Any device that does not have a matching network address is prevented from communicating with our firewall (and any servers).</p> <p>IT staff are immediately alerted if a device attempts to claim an IP address without a corresponding reservation.</p> <p>IT staff are immediately alerted if an IP address conflict develops between any GCA server and another device.</p> <p>GCA network devices that can cause network issues due to instability are isolated from the main GCA network via a physical VLAN.</p> <p>The open wireless network (for guest use) is isolated from the main GCA network via a physical VLAN.</p> <p>All GCA network devices can only access the servers and ports that are required for normal operation. The only workstations that have full network access are the designated IT management workstations.</p> <p>All domain accounts are set to automatically lock for a 2-hour period if 20 incorrect password attempts are detected in 1 10-minute period.</p> <p>IT staff are alerted if any domain account becomes locked.</p> <p>If any on-site network port that is normally unused has a connection established, IT staff are alerted.</p>	<p>CTO</p>	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>
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Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.14	Unauthorised access to internal GCA network (console access to servers)	<p>Loss of connectivity between affected GCA devices and the network</p> <p>A heightened risk of attacks being launched against GCA servers</p> <p>Data loss or corruption within affected GCA systems</p>	Rare	Major	Medium	<p>All server administration passwords are unique, randomly generated, and meet Amazon's password complexity requirements.</p> <p>IT staff are immediately alerted when any direct console access is obtained to any GCA server (regardless of the access level).</p> <p>Only local administrative accounts are permitted to log onto GCA servers (domain accounts are blocked by default).</p> <p>Only designated IT management workstations can connect to servers via RDP.</p> <p>All domain accounts are set to automatically lock for a 2-hour period if 20 incorrect password attempts are detected in 1 10-minute period.</p> <p>IT staff are alerted if any domain account becomes locked.</p> <p>All servers residing within the Amazon Virtual Private Cloud (VPC) have their local firewalls configured to only allow connections from required sources using required protocols.</p> <p>This helps to mitigate attacks against servers that originate from within the Amazon cloud environment.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.15	Unauthorised access to internal GCA network (file system access to servers)	<p>Loss of connectivity between affected GCA devices and the network</p> <p>A heightened risk of attacks being launched against GCA servers</p> <p>Data loss or corruption within affected GCA systems</p>	Rare	Moderate	Medium	<p>Newly created GCA accounts have no access to any shared network resources. Required resources are provided only when necessary.</p> <p>For GCA servers that do not have available file shares, the number of open files and file sharing sessions are monitored.</p> <p>IT staff are immediately alerted if files are opened via a file share session.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.16	Unauthorised access to internal GCA network (from outside)	<p>Loss of connectivity between affected GCA devices and the network</p> <p>A heightened risk of attacks being launched against GCA servers</p> <p>Data loss or corruption within affected GCA systems</p>	Possible	Moderate	Medium	<p>All GCA servers have external access restricted via the Amazon Security Group (firewall).</p> <p>Only ports that are required for public access are opened (HTTP / HTTPS, etc).</p> <p>Servers that are only used internally have no publicly accessible ports.</p> <p>Servers that require external access only for specific GCA staff are only accessible from a set range of source IP addresses.</p> <p>On-site GCA servers (firewalls) have no publicly accessible ports.</p> <p>All internal network traffic which passes between any GCA site and Amazon EC2 is encrypted within an IPSec VPN tunnel (50-character random pre-shared key).</p> <p>VPN endpoints are only visible to the corresponding tunnel endpoint via IP address filters.</p> <p>Any changes to the file system of any GCA website are logged, and IT staff are alerted.</p> <p>All GCA websites utilise an independent worker process, and an independent file system access user. This ensures that if one site is compromised, it cannot access data on any other site.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.



<p>6.16 (continued)</p>						<p>All GCA websites run with a limited user account which can only read the file system data for that site. If the user account requires read/write access to the file system, it is granted at the most granular level possible.</p> <p>All domain accounts are set to automatically lock for a 2-hour period if 20 incorrect password attempts are detected in 1 10-minute period.</p> <p>IT staff are alerted if any domain account becomes locked.</p> <p>All PHP website execution errors are logged, and IT staff are alerted.</p> <p>Any failed login attempts to the GCA Remote Access Gateway server are logged, and IT staff are alerted.</p> <p>Any failed attempt to access the file system on any Windows workstation or server are logged, and IT staff are alerted.</p> <p>The geographical source location of all active external connections to both the VPN and Remote Access Gateway are checked against the expected location of the device or user. If a connection is traced to an unexpected region or country, IT staff are alerted.</p> <p>The number of attempted connections to the GCA Remote Access Gateway are monitored to ensure that the gateway does not become unavailable due to repeated connection attempts exhausting the number of available TCP sockets.</p>		
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					<p>Only specified source IPs can connect to each GCA database.</p> <p>IT staff are alerted when a connection is made to any GCA database instance from an unauthorised IP address.</p> <p>All GCA domain names are checked every 60 seconds to verify that they resolve (via DNS) to the correct IP address. Failure to resolve to the correct address indicates that the DNS records have been compromised.</p> <p>Any USB device must have the BitLocker drive encryption system enabled before it can be used to store data from any GCA system.</p> <p>All GCA devices set up with Windows 10 LTSC 21H2 (since October 2022) have the BitLocker drive encryption system enabled on the system disk by default.</p> <p>Any GCA laptop with BitLocker enabled must also use a startup PIN code.</p> <p>Data encryption is enforced on all GCA smartphone devices along with a strong 6 digit startup PIN.</p> <p>All VPN user accounts are device specific, and use a random access key of at least 30 characters. End-users do not need to enter these credentials, as they are stored securely on each device during setup.</p> <p>A device configuration policy is enabled for all mobile devices, which enforces:</p>	
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					<ul style="list-style-type: none"> <li>• Complex password / passcode in order to unlock device</li> <li>• Automatic screen lock after 5 minutes of inactivity</li> <li>• Automatic device wipe if 5 unsuccessful unlock attempts are performed</li> <li>• Automatic installation of OS updates</li> <li>• Installation of apps from trusted sources only</li> <li>• Threat scan on all newly installed apps</li> </ul> <p>If a device is lost or stolen, the following actions can be performed remotely by IT staff:</p> <ul style="list-style-type: none"> <li>• Device Wipe</li> <li>• Device Restart</li> <li>• Passcode Reset</li> <li>• Device Location</li> </ul>		
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6.17	Unauthorised access to third party provider portals (DNS, domain names, SSL Certs, email, cloud hosting)	<p>Loss of connectivity between affected GCA devices and the network</p> <p>A heightened risk of attacks being launched against GCA servers</p> <p>Data loss or corruption within affected GCA systems</p>	Unlikely	Major	Medium	<p>Two-factor authentication is enabled for all third-party administration portals that support it.</p> <p>This includes Amazon EC2, Office 365, Dyn Managed DNS, Cisco Umbrella, and GoDaddy SSL Certs.</p> <p>The use of an authenticator app is preferred over the use of SMS (where supported).</p> <p>All members of the Accounts Department have two-factor authentication enabled on their Office 365 accounts.</p> <p>All management staff have two-factor authentication enabled on their Office 365 accounts.</p> <p>All staff Moodle user accounts have two-factor authentication enabled (regardless of the access level)</p> <p>All Moodle user accounts with administrative level access have two-factor authentication enabled.</p> <p>The LastPass password management system is used for all IT management password storage. Two factor authentication is enabled.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>
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6.18	Use of master / over-privileged access credentials for automated system tasks	Loss of master administration credentials to GCA systems  Data loss or corruption within affected GCA systems	Rare	Minor	Low	<p>Special access accounts / keys are created for automated system tasks, granting only the required set of access permissions.</p> <p>These accounts / keys can be revoked / disabled if it is found that they have leaked.</p> <p>Access credentials / keys are not stored in plain text within administration scripts (wherever possible)</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
6.19	Insufficient Remote Desktop Client Access Licences (CALs)	<p>Inability of GCA staff to remotely access any IT resources</p> <p>Inability of GCA staff / students to access any IT resources via thin client terminals</p>	Unlikely	Moderate	Medium	<p>Device CALs are used instead of User CALs. This ensures that GCA always complies with the licencing agreement, as devices cannot function without a valid Device CAL.</p> <p>The number of available Device CALs are monitored every 60 seconds via a custom script.</p> <p>If less than 5 Device CALs are available for use, IT staff are alerted.</p> <p>An order can then be placed for additional CALs, or unused devices can have their CALs revoked.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.20	Internally generated e-mail or SMS messages not reaching their intended recipients	<p>GCA staff and students may miss important written communications.</p> <p>IT staff may miss important status notification and alert messages.</p>	Unlikely	Minor	Low	<p>All internal GCA systems that send emails use one or more mail relays.</p> <p>Each mail relay has an outbound mail queue, and a failed mail queue.</p> <p>Every 60 seconds, a custom script monitors the length of these queues across all mail relays, and alerts IT staff if the outbound mail queue reaches a set level.</p> <p>Mail that remains in the outbound queue indicates an issue with the mail delivery system that needs attention.</p> <p>If any mail reaches the failed mail queue (repeated delivery attempts all failed), IT staff are also alerted.</p> <p>Once the delivery issue has been resolved, the outbound mail queue will automatically clear.</p> <p>Mail that is present in the failed queue can be manually moved to the outbound queue by IT staff once the delivery issue has been resolved.</p> <p>The SMS credit balance for both SMS providers used by GCA is constantly monitored, and IT staff are alerted if the balance falls below a set threshold.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.21	Data submitted to GCA websites being intercepted and captured	<p>Leakage of private data from GCA staff / students.</p> <p>GCA website data being changed by unauthorised persons.</p>	Rare	Moderate	Low	<p>All GCA websites (including those only used internally) operate on the HTTPS protocol.</p> <p>Any attempt to access any GCA website via HTTP results in an immediate redirection to HTTPS.</p> <p>HTTP Strict Transport Security (HSTS) is enabled for all GCA websites with a 12-month validity period.</p> <p>All GCA websites have attained either an A or A+ rating from the Qualys SSL Labs SSL test (<a href="https://www.ssllabs.com/ssltest/">https://www.ssllabs.com/ssltest/</a>)</p> <p>All GCA domains have a CAA record containing the approved issuers of SSL certificates for that domain.</p> <p>A custom script runs every 60 seconds, alerting IT staff if the SSL certificate for any GCA website is due to expire in less than 30 days. This ensures that certificate warnings are never displayed.</p> <p>Any changes to the file system of any GCA website are logged, and IT staff are alerted.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.21 (continued)						<p>The Google Password Checkup extension is deployed to all installed instances of Google Chrome (via Group Policy), to alert users if their passwords have been compromised.</p> <p>Enhanced Browsing Protection is permanently enabled on all Google Chrome instances via Group Policy, and checks for malicious websites, downloads, and compromised passwords in real-time.</p> <p>All website management portals are locked down to specific source IPs to prevent unauthorised access.</p> <p>Multi-Factor Authentication is currently being rolled out to all standard staff accounts where the platform supports it (Moodle, Office 365, Redmine, Zendesk).</p> <p>IT is currently working with CampusQ to implement MFA for the systems that they provide.</p> <p>Other systems will be isolated from public access via source IP filtering if MFA cannot be used.</p>		



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.22	Inability to access deleted emails from a GCA staff or student account	Inability to access important historical data	Rare	Minor	Low	<p>Emails deleted from any GCA staff or student account first move into the Deleted Items folder, from which they can be retrieved easily.</p> <p>If the Deleted Items folder it itself cleared, those emails can be recovered for a further 30 days.</p> <p>If more than 30 days has existed between the clearout of the deleted items folder and the recovery attempt, the GCA Mail Journal can be used to recover the message.</p> <p>The GCA Mail Journal is a separate mail server (within Amazon EC2), which stores a copy of each and every email that is either sent from or received by any GCA (Office 365) mail account.</p> <p>Only IT staff can access this Journal, and it therefore cannot be affected by individual users deleting their own emails.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly.</p> <p>Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.23	Inability to access deleted files from a GCA staff or student account	Inability to access important historical data	Rare	Minor	Low	<p>The GCA file storage repository utilises the Amazon Storage Gateway cloud storage system.</p> <p>Daily snapshots are taken of the file system, which are stored in the fault-tolerant Amazon S3 storage facility.</p> <p>One week of daily snapshots are taken (rolling window), and independent snapshots are taken on Jan-1 and Jul-1 each year.</p> <p>Any snapshot can be mounted onto an Amazon EC2 server for file retrieval in around 15 minutes.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly.</p> <p>Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.24	Accounts for inactive GCA staff or students remaining active	<p>Unauthorised access to GCA data and systems</p> <p>Data loss or corruption within affected GCA systems</p>	Possible	Moderate	Medium	<p>GCA student accounts are automatically deactivated when the student no longer has an active course within GCA, or if they become non-financial for an extended period of time.</p> <p>GCA staff accounts are deactivated (or created) by IT staff only when written instructions are received from the Accounts Department.</p> <p>Every 6 months, IT staff compile a list of active staff accounts, and match this against the list of current GCA staff. Any outstanding accounts are deactivated.</p> <p>Automated account management scripts and checklists used by IT staff ensure that access accounts for all IT systems are deactivated at the same time.</p> <p>If any active system account has not been used for a 60-day period, IT staff are alerted.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.25	Reported IT issues not being handled in a timely manner	Delays in selected GCA staff / students being able to utilise IT resources	Unlikely	Moderate	Medium	<p>A trouble ticket lodgement and monitoring system (Redmine) is used by all GCA staff.</p> <p>Staff lodge a ticket when any IT related issue is found.</p> <p>IT staff are notified when a ticket is lodged, and any updates to the ticket are logged within Redmine.</p> <p>IT staff can easily see what items are outstanding, which items require feedback from the reporter, and which items have been resolved.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly.</p> <p>Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.26	Inability to access the HEPCAT (higher education reporting software) when required	Inability of GCA to meet its reporting obligations to the Federal Government	Rare	Major	Medium	<p>In order to report the higher-education student data to the Federal Government, a specific program (HEPCAT) must be used.</p> <p>This program maintains a locally stored database on whatever PC it is running on, and therefore can only be installed and used on a single PC.</p> <p>All GCA staff who need to use HEPCAT would normally be forced to all use the same PC, and remote access to HEPCAT would therefore be impossible.</p> <p>As the database is locally stored, any failure of the PC would result in the loss of HEPCAT data.</p> <p>This risk has been mitigated by installing HEPCAT onto a Windows Remote Desktop server, located in Amazon EC2.</p> <p>This server can be accessed by any authorised person, from any location via Remote Desktop Services.</p> <p>As the server now resides in Amazon EC2, the data is backed up via the Snapshot system (see section 6.2). This ensures that the HEPCAT data is secure and backed up.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.27	Failure of a non-workstation IT related device	Inability of GCA staff and students to access affected IT resources	Possible	Moderate	Medium	<p>All network devices are monitored every 60 seconds for their reachability.</p> <p>IT staff are immediately alerted if any network device fails to respond.</p> <p>Spare devices are kept on-site to replace any faulty ones (network switches, VOIP handsets, projectors, card scanners etc...)</p> <p>The fan status and power supply status for all network switches is monitored via SNMP. Alerts are sent out if any parameter exceeds normal values.</p> <p>The status of all data projectors is monitored via SNMP to retrieve the status of the device and lamp hour count.</p> <p>IT staff are alerted if any projector shows a warning or alert condition, or if the lamp hours have exceeded the replacement interval.</p> <p>This allows for the lamp to be replaced during normal downtime without causing an unexpected failure.</p> <p>All printers and copiers are constantly monitored via SNMP to retrieve the status of the device and level of all consumables.</p> <p>This allows for printer consumables to be replaced during normal downtime without causing an unexpected failure.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.27 (continued)						The display settings for all data projectors are automatically reset when a user logs in to ensure that the projectors and interactive whiteboards can be used properly.		
6.28	Internal GCA systems taking part in denial of service attacks against other networks	Major loss of system performance and internet bandwidth capacity for GCA staff and students	Rare	Moderate	Low	<p>Unauthorised programs cannot be executed on any GCA workstation (see section 6.9)</p> <p>Outbound TCP / UDP ports which are not required for normal operation are blocked for all GCA workstations.</p> <p>No GCA workstations can send outbound mail on SMTP port 25 (regardless of the firewall setting) unless specially configured.</p> <p>All internal GCA mail relays can only be accessed by specific internal IP addresses, and their queue length is constantly monitored.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.29	Unauthorised access to internal GCA network via Wi-Fi	<p>Unauthorised access to GCA data and systems</p> <p>Data loss or corruption within affected GCA systems</p>	Rare	Moderate	Low	<p>Two separate Wi-Fi networks are in use at GCA - one open network, and one encrypted network.</p> <p>The open network is physically isolated from the main GCA network (separate Access Points, switches, etc). No data can physically traverse from the open network to the main GCA network.</p> <p>The encrypted network is only available for internal GCA network devices. The encrypted network utilises WPA2-PSK encryption (AES cipher), with a random PSK which is 64 characters long (the maximum length).</p> <p>All Access Points have the latest manufacturer's firmware installed.</p> <p>A custom script runs every 60 seconds, checking for new firmware and alerting IT staff if a new version is available.</p> <p>The open network is only available for use during working hours. Any user of the open network must accept the Terms and Conditions of Use before access is granted.</p> <p>The open network only allows for public internet traffic (HTTP and HTTPS). All other outbound ports are blocked.</p> <p>IT staff are immediately alerted if the internal GCA network is bridged with the open Wireless LAN for any reason.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.30	Unauthorised access to GCA systems by external contractors of GCA	<p>Unauthorised access to GCA data and systems</p> <p>Data loss or corruption within affected GCA systems</p>	Unlikely	Minor	Low	<p>The configuration of all access points is monitored to ensure that encryption is enabled when required.</p> <p>No "guest" or temporary access accounts exist within the GCA network.</p> <p>Any accounts required for external contractor access are only created once written approval is received from the relevant department head.</p> <p>All such accounts have an expiry date set, after which the account will automatically disable itself.</p> <p>The default access level for any newly created account is the minimum required. Additional access is only granted once written approval is received from the relevant department head.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>



Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.31	<p>Unauthorised access to GCA systems via venerable IoT (Internet of Things) devices</p>	<p>Unauthorised access to GCA data and systems</p> <p>Data loss or corruption within affected GCA systems</p>	Unlikely	Moderate	Medium	<p>All IoT devices used at GCA are installed on a physically separated VLAN (CCTV cameras, VOIP phones, card scanners, temperature sensors, printers etc).</p> <p>To ensure that bandwidth is always available for IoT devices (CCTV / VOIP), each class of devices have their own physical VLAN.</p> <p>IoT devices cannot access the Internet - nor can they access any other VLAN. They can only access the server (and the specific ports) to which they need to communicate.</p> <p>None of the IoT devices used at GCA use their default access credentials.</p> <p>All IoT devices use the latest firmware that is available.</p> <p>A custom script runs every 60 seconds, checking for new firmware and alerting IT staff if a new version is available.</p> <p>All IoT devices connect to servers that are hosted and controlled by GCA.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.32	CCTV cameras failing to record for an extended period of time	<p>Loss of visual evidence of any incident that were to occur at GCA</p> <p>Inability to identify unauthorised persons who entered GCA property</p>	Rare	Minor	Low	<p>A custom script runs every 60 seconds, checking for the existence of recording files associated with each CCTV camera.</p> <p>If a camera has not recorded to disk in the last 48 hours, IT staff are immediately alerted.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
6.33	System database instances becoming full and incapable of storing additional data	Failure of myGCA system or any other system that utilises a database instance	Rare	Moderate	Medium	<p>A custom script runs every 60 seconds, checking the amount of free space within the Oracle USERS tablespace. If the available space drops below 10%, IT staff are alerted, and can then manually add another file to the tablespace.</p> <p>For other database instance types (MySQL and MS-SQL), the amount of free space on the storage volume is checked every 60 seconds. If the available space drops below 10%, IT staff are alerted and can then manually expand the volume size.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
6.34	TEQSA document submission portals becoming unavailable	<p>Failure of GCA to submit documents to TEQSA within the set timeframe.</p> <p>GCA being in breach of our obligations to TEQSA.</p>	Possible	Moderate	Medium	<p>If a TEQSA portal is unavailable, GCA will inform TEQSA in writing and seek confirmation from TEQSA that the issue is with their systems.</p> <p>GCA will then seek confirmation from TEQSA that if the submission deadline is missed, it will NOT be the fault of GCA.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly.</p> <p>Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>

6.35	User credentials being compromised due to "phishing" emails being opened by GCA staff	<p>Unauthorised access to GCA systems</p> <p>Loss of data from GCA systems</p> <p>Malicious manipulation of data within GCA systems</p>	Possible	Moderate	Medium	<p>All E-mail traffic to and from any GCA address is protected by the Office 365 Advanced Threat Protection system. This system scans all email links to identify those that are malicious, and also monitors email traffic to identify emails that impersonate key GCA staff members.</p> <p>All GCA workstations have their web traffic filtered by the Cisco Umbrella (OpenDNS) filtering system.</p> <p>This system updates in real time, and blocks malicious websites from being loaded, along with websites that fall into categories that are considered to be undesirable.</p> <p>Multi-Factor Authentication is currently being rolled out to all standard staff accounts where the platform supports it (Moodle, Office 365, Redmine, Zendesk).</p> <p>IT is currently working with CampusQ to implement MFA for the systems that they provide.</p> <p>Other systems will be isolated from public access via source IP filtering if MFA cannot be used.</p>	CTO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
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6.36	VOIP extensions being taken over by unauthorised persons	<p>Inability of affected VOIP extensions to make or receive calls</p> <p>Unauthorised call charges being incurred against the GCA VOIP account</p>	Unlikely	Minor	Low	<p>All VOIP extensions have passwords that meet the Office 365 complexity requirements.</p> <p>All fixed VOIP extensions are locked down to a specific IP. Any device that attempts to register from a different IP will be rejected, even if the password is correct.</p> <p>This includes any external VOIP extensions that connect from a static IP address.</p> <p>External VOIP extensions that do not connect from a static IP address, but connect from a static internet connection have their IP addresses locked down to the range that the ISP uses.</p> <p>The IP addresses that external extensions are registered from are constantly monitored. IT staff are alerted if any extension registers from an IP address that is not located within Australia.</p> <p>If any external VOIP extension is configured for unrestricted access (from any source IP), IT staff are alerted.</p> <p>If a source IP attempts to register an extension but fails, the IP address is immediately blocked from communicating with the PBX.</p> <p>If a source IP attempts to register an extension but fails, the entire /24 IP range is blocked from communicating with the PBX.</p>	CTO	<p>The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.</p>
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7.0 Physical Resources								
Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
7.1	Damage to the campus (classrooms, facilities, etc.)	Loss of teaching time; cancellation of classes; loss of staff productivity; high expenses to repair damage	Rare	Moderate	Low	Maintain current vigilance Keep multiple spare items for lecture studios, to accommodate timely replacements of faulty equipment.	P	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
7.2	Poor implementation and awareness of business continuity and disaster recovery processes	Inability to respond to an emergency relating to IT systems failure, physical damage to premises; respond to injury/death of students and staff; deal with impact of pandemic	Rare	Moderate	Low	Maintain current vigilance	P	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.
7.3	Public relations disaster e.g. negative media attention	Key staff not identified who have authority to speak to the media. These staff not trained in appropriate protocol.	Possible	Moderate	Medium	CEO is the authority supported by the DVC.	DVC and CEO	The matter is of ongoing concern and is reviewed accordingly. Quarterly audits are conducted by the ARC and reported to the GCA Board accordingly.

Risk Category & Item	Risk Description	Impact Scenario	Risk Likelihood	Risk Consequence	Risk Impact Rating	Risk Mitigation Strategy	Risk Owner	Status
7.4	Impact of pandemic (COVID-19)	Loss of business and impact on operations	Possible	Major	Medium	Migration of classes from face-to-face to online classes. Retraining of staff to deliver online classes Upgrade of IT infrastructure to support online classes Transition for selected staff from onsite to working from home Use of online collaboration software for online meetings. Online and offshore teaching (where allowed and appropriate). A Covid safe plan has been implemented and is regularly updated. Investigate the option of replacement teachers.	P	From February 2020 onwards The successful transition to online learning is documented at – <a href="https://www.ubss.edu.au/media/1824/transition-to-online-teaching-and-learning-at-ubss-2020.pdf">https://www.ubss.edu.au/media/1824/transition-to-online-teaching-and-learning-at-ubss-2020.pdf</a>



**The Current Risk Register was reviewed and endorsed by the GCA Board of Directors on July 26, 2023**