



Empowering Graduates for Success:

UniSC's Leadership in Embedding Industry Certifications

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About me



INFORMATION SYSTEMS WITH
A FOCUS ON DATA



TAUGHT A RANGE OF
COURSES, BUT ALWAYS LOVED
TEACHING SKILLED BASED
COURSES



BEEN IN ACADEMIA SINCE MY
BACHELORS

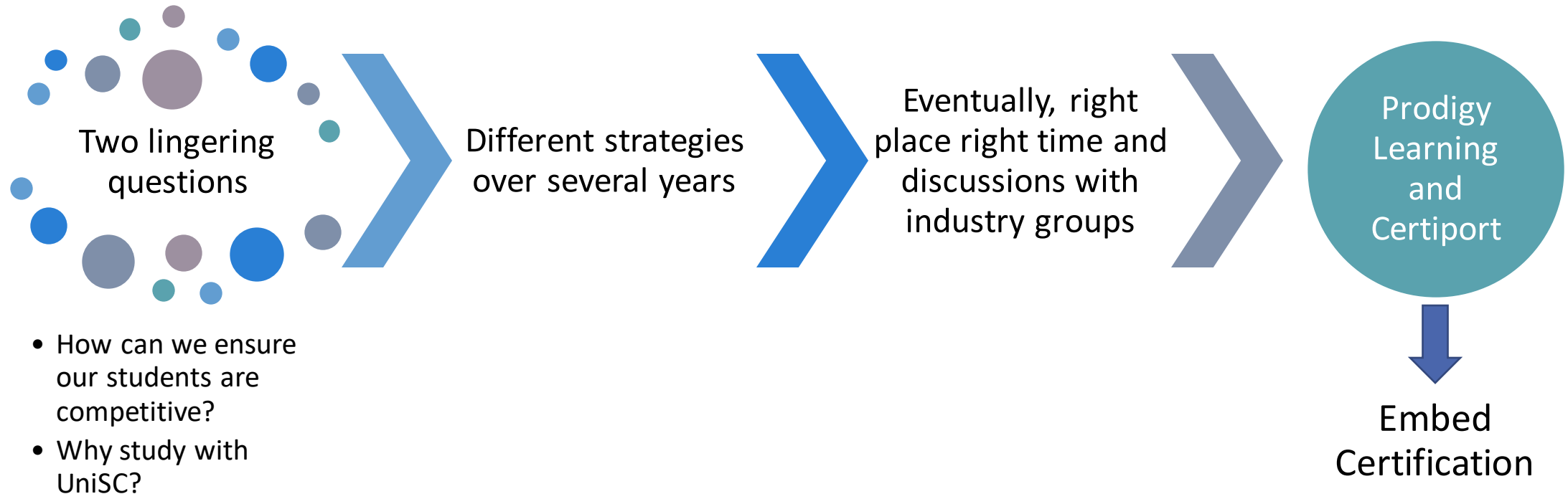


HARD TO KEEP UP WITH THE
CHANGES

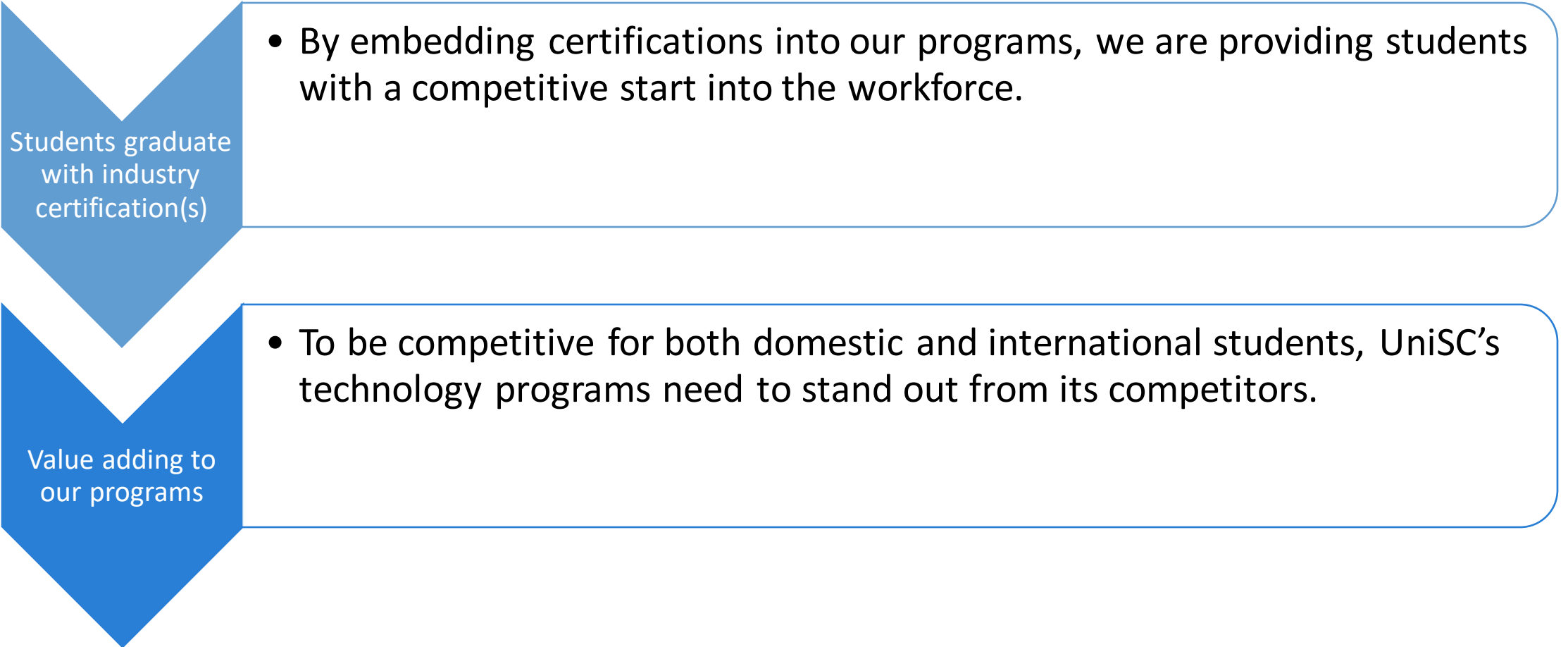


ALWAYS LIKED TO ALIGN WITH
WHAT INDUSTRY NEED

Our Journey



Why embed?



Students graduate
with industry
certification(s)

- By embedding certifications into our programs, we are providing students with a competitive start into the workforce.

Value adding to
our programs

- To be competitive for both domestic and international students, UniSC's technology programs need to stand out from its competitors.

Courses are more than just the certification



The certification is NOT the whole course



It is aligned with the practical aspects of the course



In most of the Technology courses we have hands on skills that students learn

Different ways to embed

Partial
Material
No exam

- Embed some of the material
- Students will need to study the remaining material on their own time and pay and take the exam if they choose to

All Material
No exam

- Embed all the material but not the exam
- Students can opt to pay and take the exam if they choose to

All Material
Exam

- Fully embed the material and exam
- One of the tasks is the certification exam

When the material
doesn't fully align

When the exam result is
not accessible

Ideal option

Our Approach

Certification is gained by embedding the Industry Certification Exam as one of the course assessments.

This will enable **all** students who enrol in the courses to sit the certification exams.

Students who pass the exams will get the certification along with a grade for the assessment.

There will be no additional cost to the students. This means that USC will pay for the cost of embedding the certification.

As part of the agreement with the providers, USC can offer the certifications commercially as asynchronous short courses at full suggested retail price.

USC will be able to utilise the academic discounts to work with partners locally and charge the full retail price for exams.

This revenue generation can potentially cover the cost of the exam outlay over time.

Our Technology Programs

Undergraduate

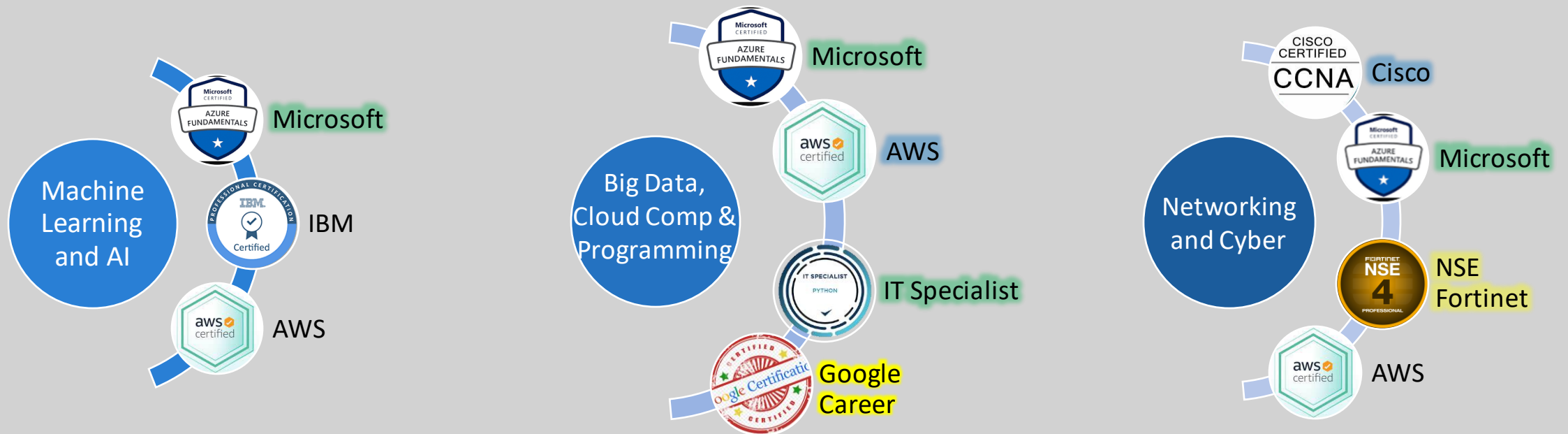
- Bachelor of ICT
- Bachelor of Computer Science

Postgraduate

- Master of ICT
 - Grad Cert ICT
- Master of Cybersecurity and Forensics
 - Grad Cert Cyber Security
 - Grad Cert Forensics

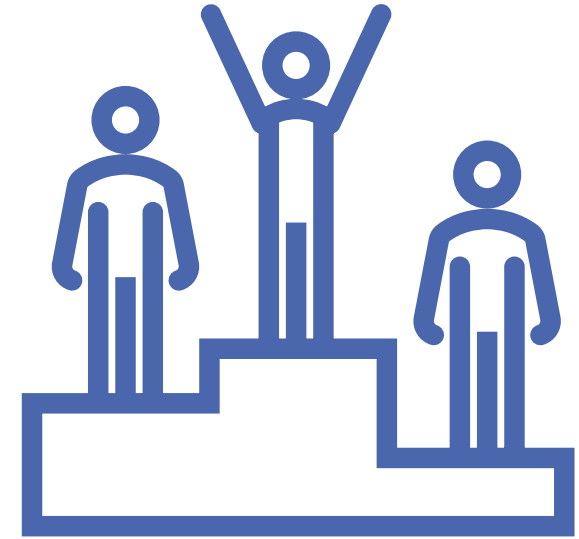
Industry Certifications

- In our technology degrees, we have three main themes of certifications
 - Machine Learning and Artificial Intelligence (AI)
 - Big Data, Cloud Computing and Programming
 - Networking and Cybersecurity
- Each theme has several industry certifications aligned. Below are some of the main ones



UniSC leads the nation

- We are the first university to fully embed Microsoft Certifications
 - Other universities include it as optional
- We are the first university in Australia to partner with Google Education
 - Through our inclusion of Google Career Certs



Costs of learning materials and exams

USC bears the costs of the exams by embedding them as assessment

- **Microsoft** – exam and learning materials purchased through Prodigy Learning
- **ITS** – exam and learning materials purchased through Prodigy Learning
- **AWS** – Learning Material free from AWS Education
- **Cisco** – Learning Material free from Cisco Academy (Certificate of Completion, Letter of Merit, Digital Badge)
- **Google Career** – exam and learning materials free from Google delivered through Coursera
- **NSE Fortinet** – exam and learning materials free from Fortinet

Currently Embedded Certifications

Undergrad Degrees

BICT		BCompSci (Cloud and Mobile)		BCompSci (Cybersecurity)	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
BUS104 • Discovering Management	ICT115 • Intro to Systems Design	MTH103 • Into to Applied Math	CSC100 • Computer science project and ethics	MTH103 • Into to Applied Math	CSC100 • Computer science project and ethics
ICT110 • Intro to Data Science	ICT120 • Intro to Computer Networks • Badge – Cisco	ICT110 • Intro to Data Science	ICT120 • Intro to Computer Networks • Badge – Cisco	ICT110 • Intro to Data Science	ICT120 • Intro to Computer Networks • Badge – Cisco
ICT112 • Programming • Cert – ITS Python	DES105 • Intro to Design and Concept	ICT112 • Programming • Cert – ITS Python	ENG103 • Intro to the Internet of Things	ICT112 • Programming • Cert – ITS Python	ENG103 • Intro to the Internet of Things
SEC100 • Foundations of Comp Security • Badge – Google Career	SCI110 • Science Research Methods	SEC100 • Foundations of Comp Security • Badge – Google Career	MTH212 • Discrete Mathematics	SEC100 • Foundations of Comp Security • Badge – Google Career	MTH212 • Discrete Mathematics
ICT200 • Systems Analysis and Design	DES222 • Responsive Design in Wearable Technologies	CSC200 • Computer organisation & Operating systems	CSC201 • Data Structures and Algorithms	CSC200 • Computer organisation & Operating systems	CSC201 • Data Structures and Algorithms
ICT211 • Database Design • Cert – ITS Databases	DIG202 • Bringing Data to Life	ICT211 • Database Design • Cert – ITS Databases	CSC202 • Mobile App Project	ICT211 • Database Design • Cert – ITS Databases	CSC202 • Mobile App Project
DES221 • Intro to Interactive Media	--- • Elective	ICT220 • Wireless Communications • Badge – Cisco	CSC203 • Software Defined Networking	ICT220 • Wireless Communications • Badge – Cisco	--- • Elective
ENS253 • Geographic Information Science & Technology	--- • Elective	ICT221 • Object-oriented programming • Cert – ITS Java (from 2024)	DES222 • Responsive Design and Wearable Technologies	ICT221 • Object-oriented programming • Cert – ITS Java (from 2024)	--- • Elective
ICT351 • ICT Professional Practice	ICT320 • Database Programming • Cert – Microsoft	CSC300 • Practical Machine Learning • Cert – Microsoft	CSC303 • Cloud and DevOps	CSC300 • Practical Machine Learning • Cert – Microsoft	CSC303 • Cloud and DevOps
ICT352 • ICT Project Management	ICT342 • ICT Industry Project	ICT352 • ICT Project Management	WPL310 • Workplace Learning	ICT352 • ICT Project Management	WPL310 • Workplace Learning
--- • Elective	SEC303 • Device & Network Security • Cert – Microsoft	CSC301 • Full Stack Web Development • Cert – ITS JavaScript	ICT320 • Database Programming • Cert – Microsoft	SEC301 • Cyber Security	SEC303 • Device & Network Security • Cert – Microsoft
--- • Elective	--- • Elective	--- • Elective	--- • Elective	SEC302 • Ethics in Cyber Security	SEC304 • Cryptography, Blockchain and Information Security

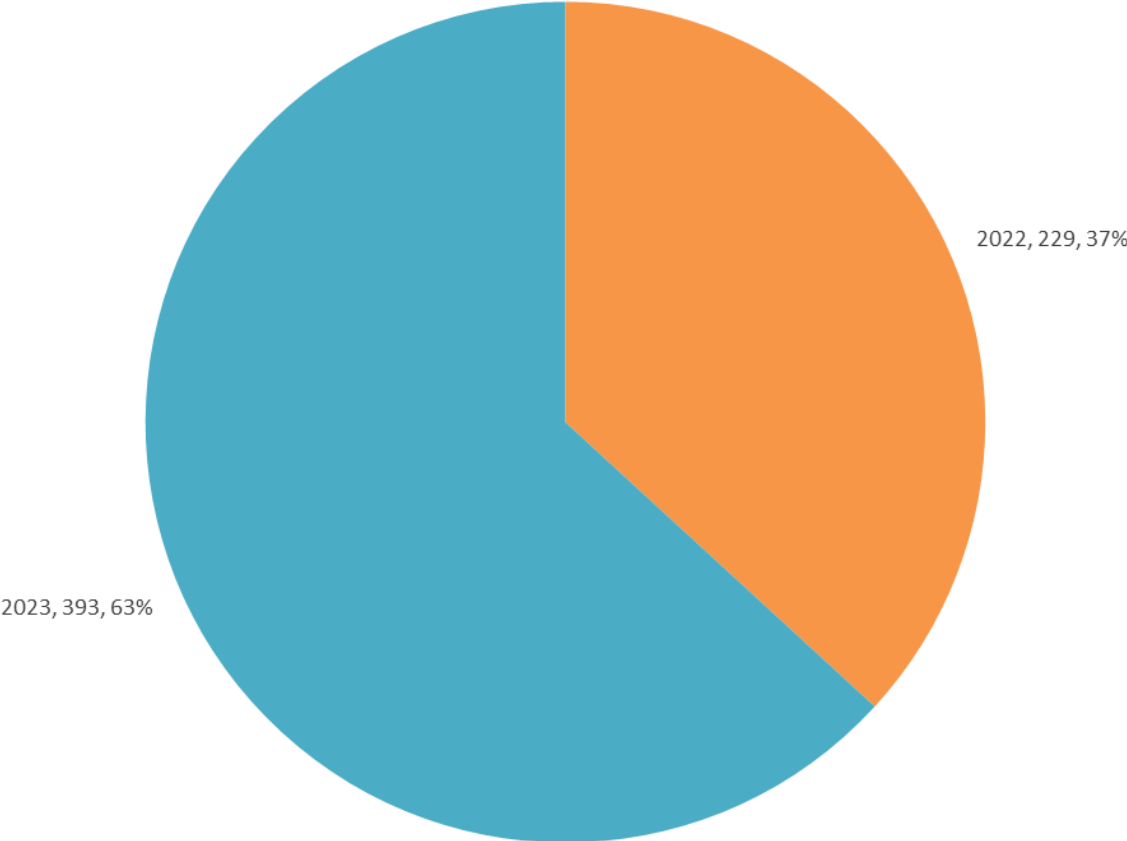
Currently Embedded Certifications

Postgrad Degrees

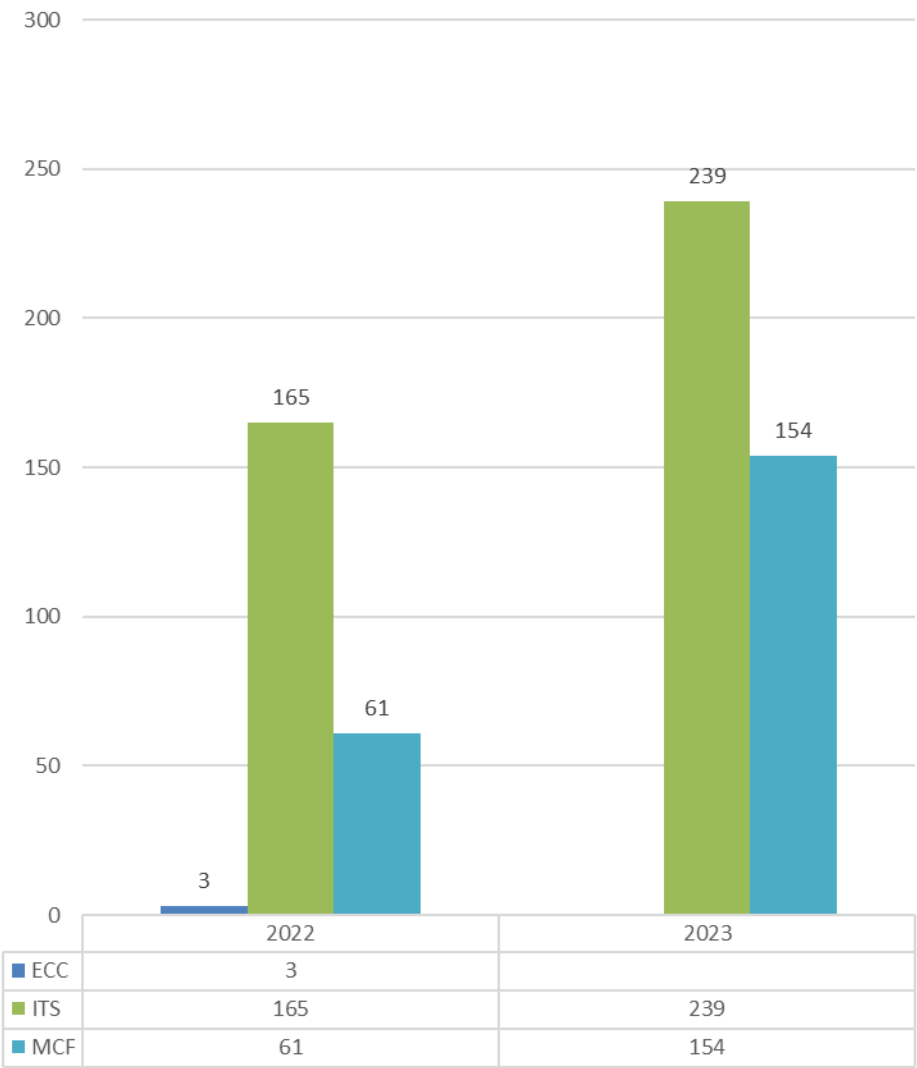
Master of ICT		Master of Cybersecurity and Forensics	
Tri 1		Tri 2	
Year 1	ICT701 • Managing Data	ICT703 • Programming • Cert – ITS Python	SEC601 • Intro to Cybersecurity
	INF701 • Managing Informatics	SEC602 • Intro to Cybersecurity	BUS703 • Evidenced Based Decision Making
	SEC601 • Intro to Cybersecurity	SEC603 • Intro to Device & Network Security • Cert – Microsoft	ICT701 • Managing Data
	ICT702 • Data Visualisation • Cert – Microsoft	SEC604 • Cryptography, Blockchain and Security	SEC701 • Cyber Laws and the Rules of Evidence
Year 2	ICT704 • Databases • Cert – Microsoft	SCI700 • Research/Dissertation or Industry/Dissertation (24 Credits)	SEC604 • Cryptography, Blockchain and Security
	ICT706 • Machine Learning • Cert – Microsoft		PRM701 • Project Management
	PRM701 • Project Management	SCI701 • Research/Dissertation or Industry/Dissertation (24 Credits)	ICT703 • Programming • Cert – ITS Python
	BUS703 • Evidenced Based Decision Making		SEC706 • Network Forensics
			SEC707 • Advanced Digital Forensics
			SCI700 • Research/Dissertation or Industry/Dissertation (24 Credits)
			SCI701 • Research/Dissertation or Industry/Dissertation (24 Credits)

Some stats

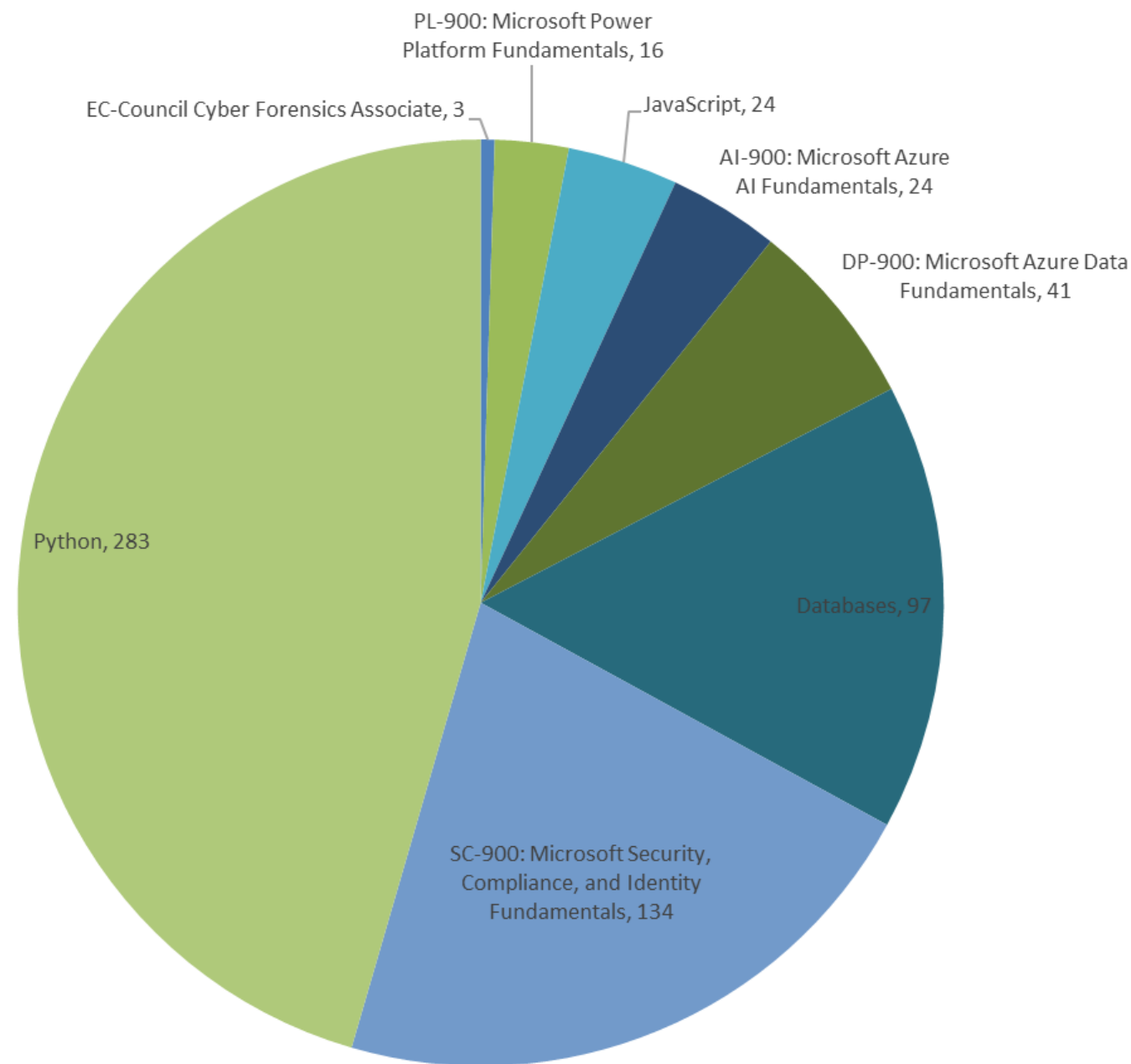
Total Exams by year



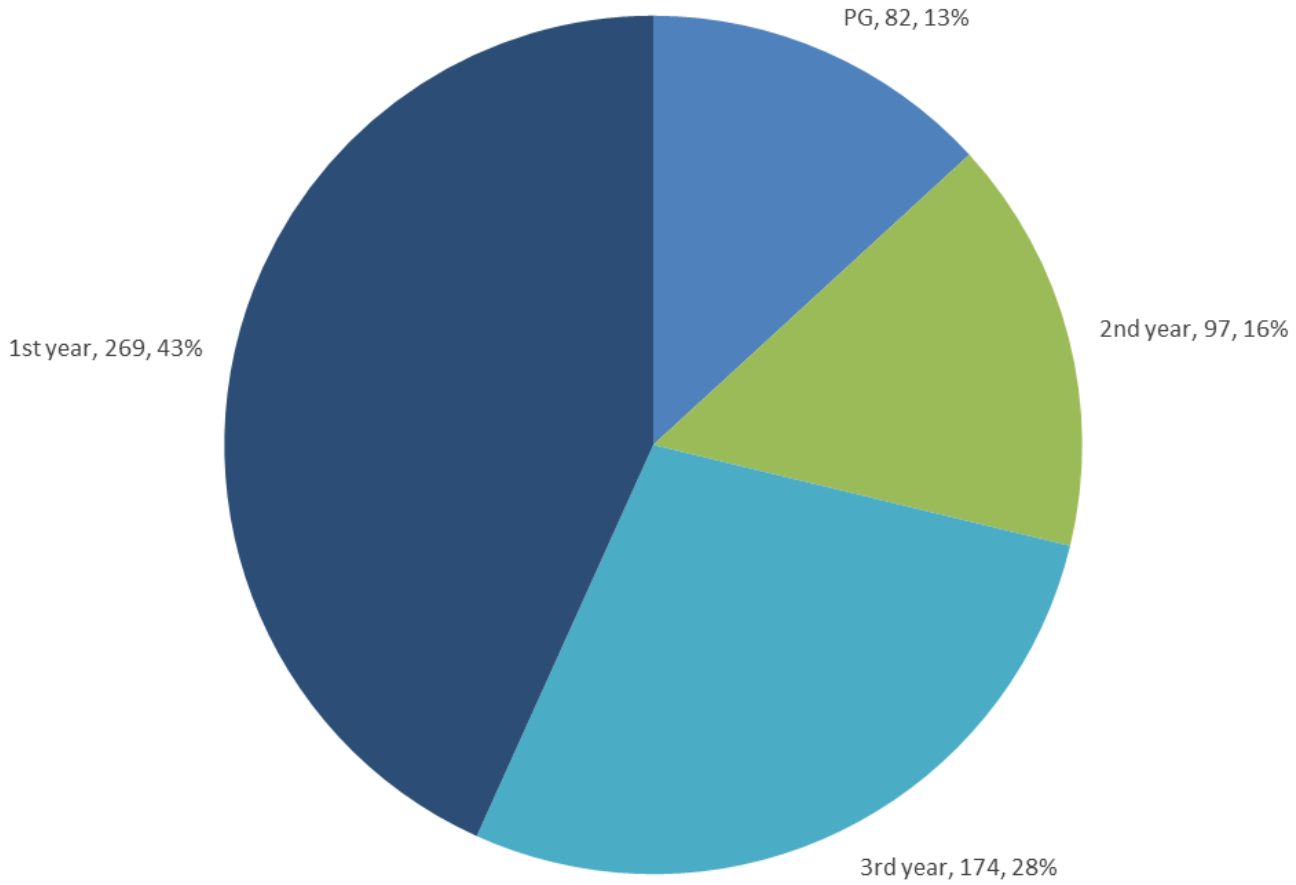
Total Exam type by year



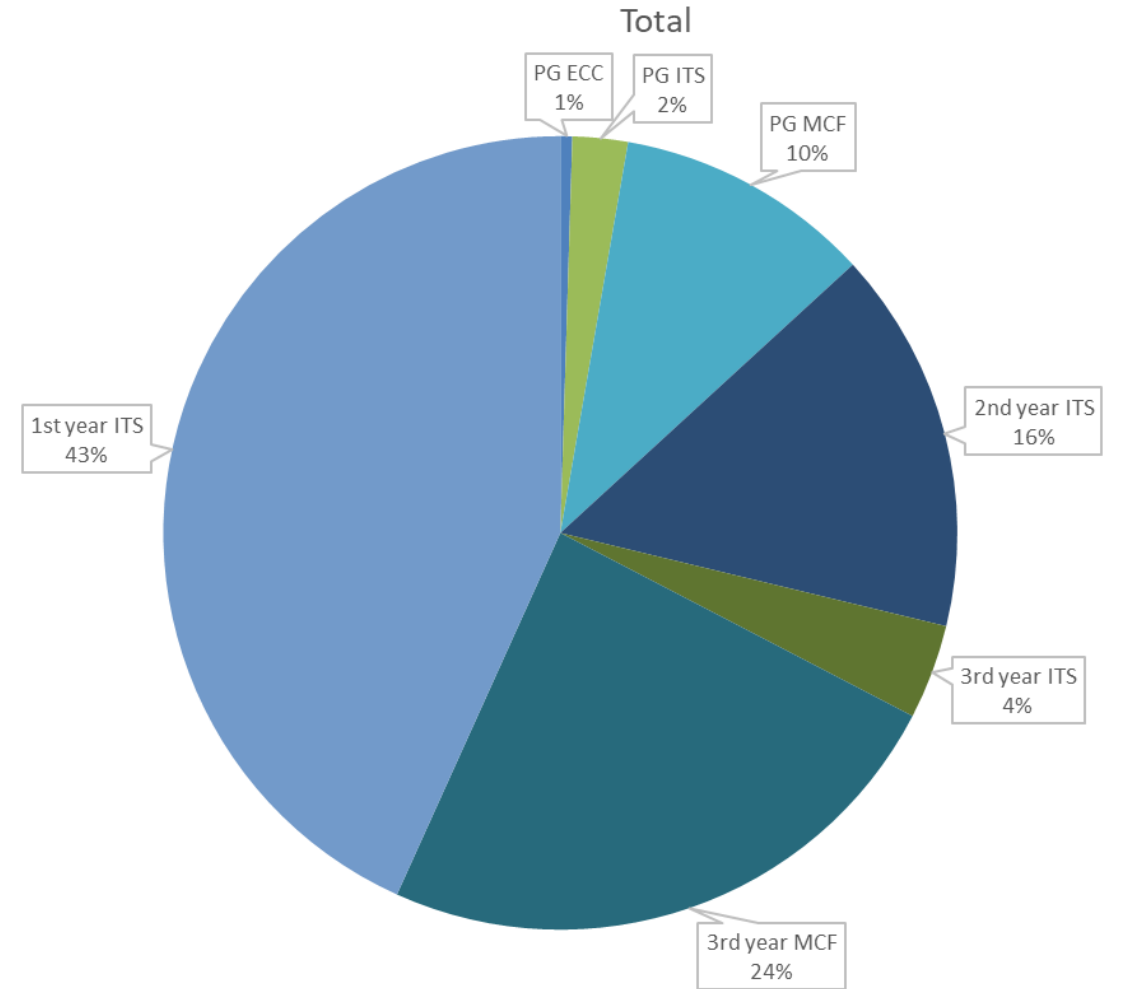
Total by Exam Name



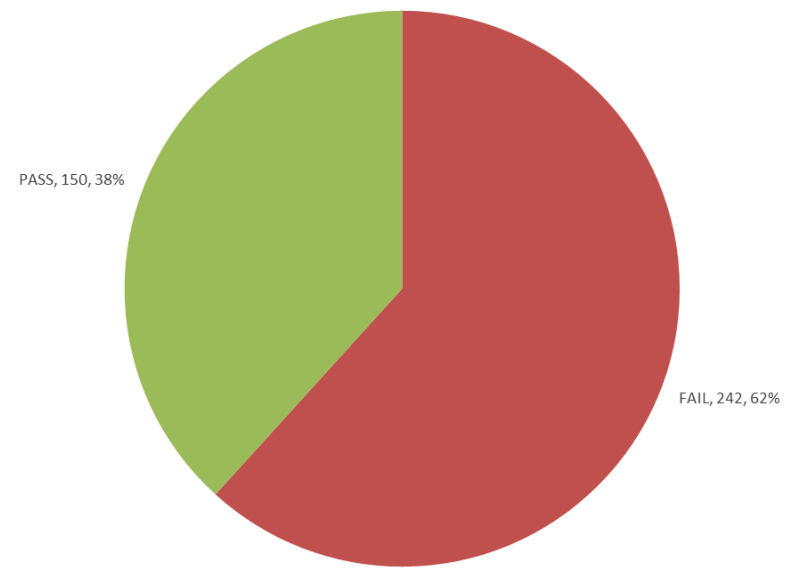
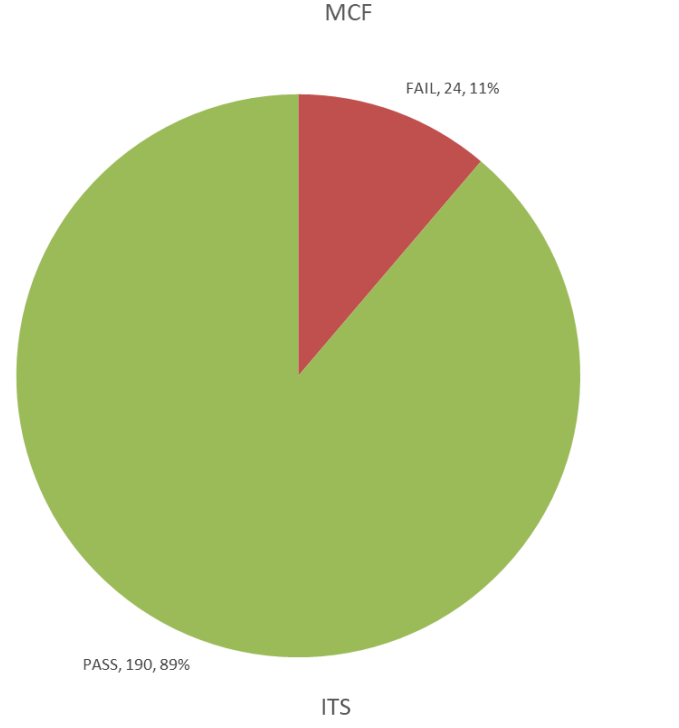
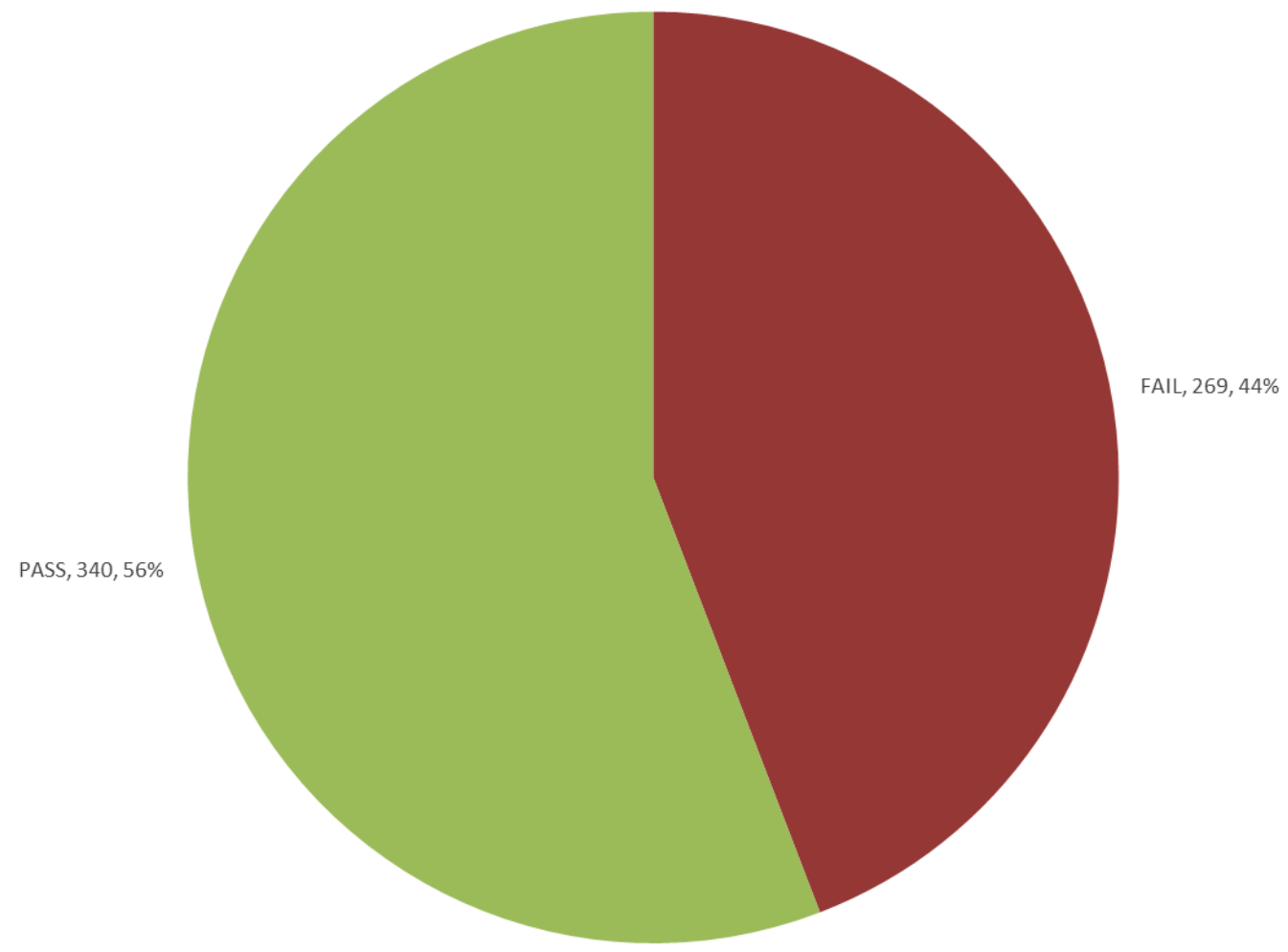
Total Exams by Year level

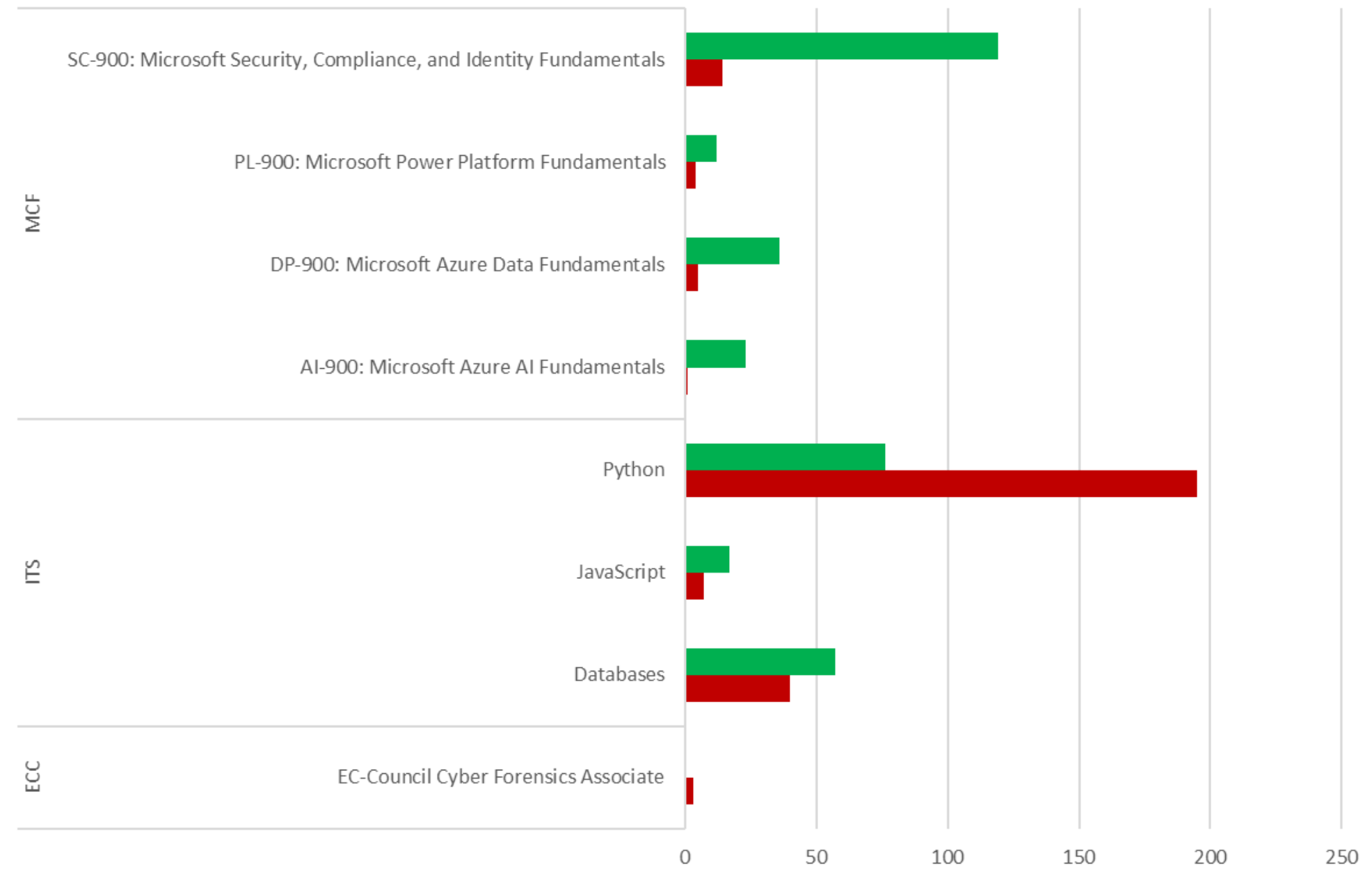


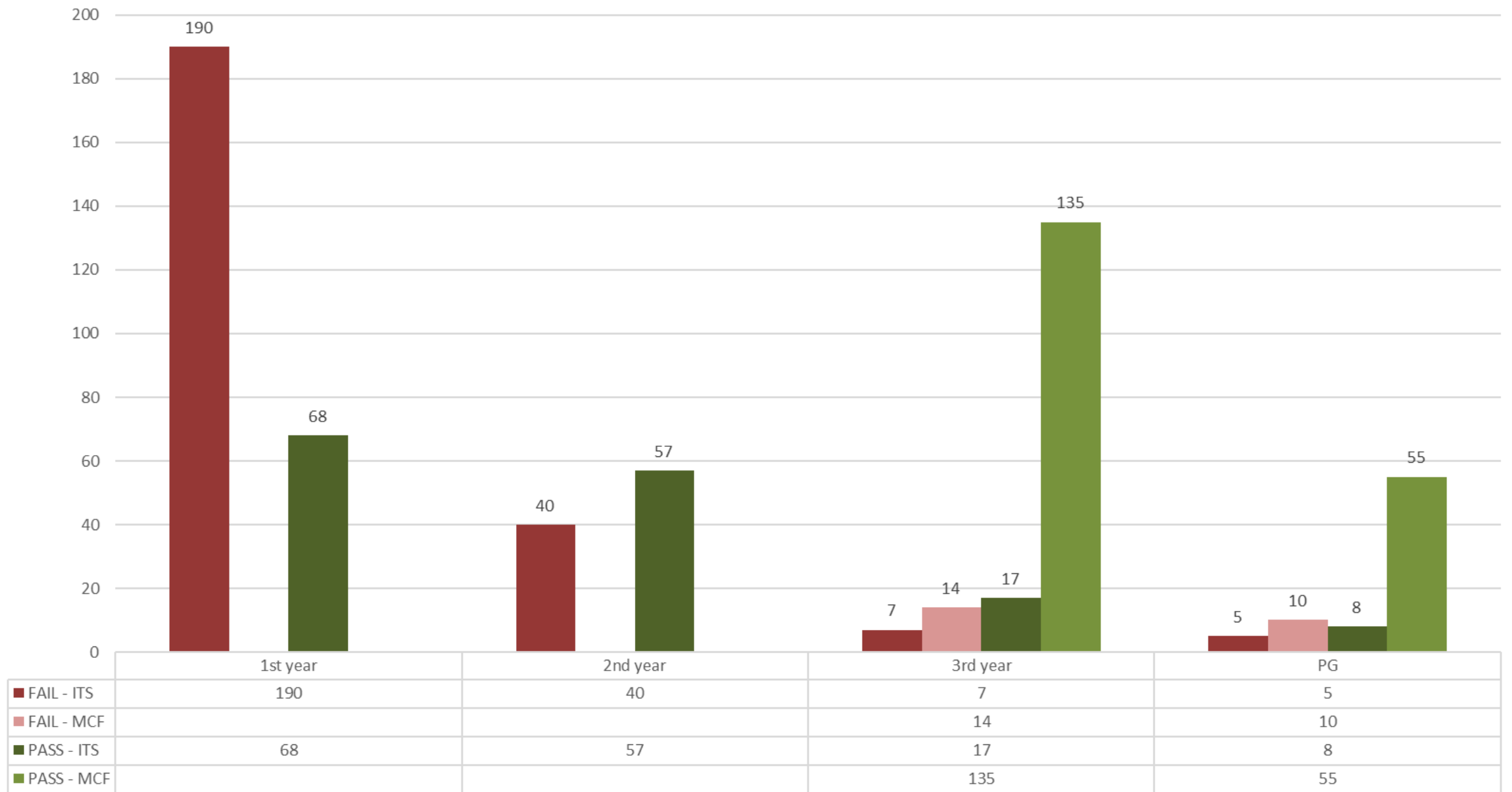
Total Exams by Year level



Number of Certifications Gained







BEYOND 2023

More Marketing

We started this as a pilot in 2022. We didn't want to over promise, so we didn't fully market what we were doing

In 2023, we added more certs and our embedded certs were one of the main attractors for domestic student recruitment

In 2024, we plan to hit the marketing more with logos on our sites and with our partners

Increase in Numbers

With the right marketing, we are anticipating an increase in numbers into our programs, both international and domestic

With the increased numbers, this means that we will need to purchase the higher bundle amount

This will provide us with a larger discount, and ability to offer more short courses and certifications to the public

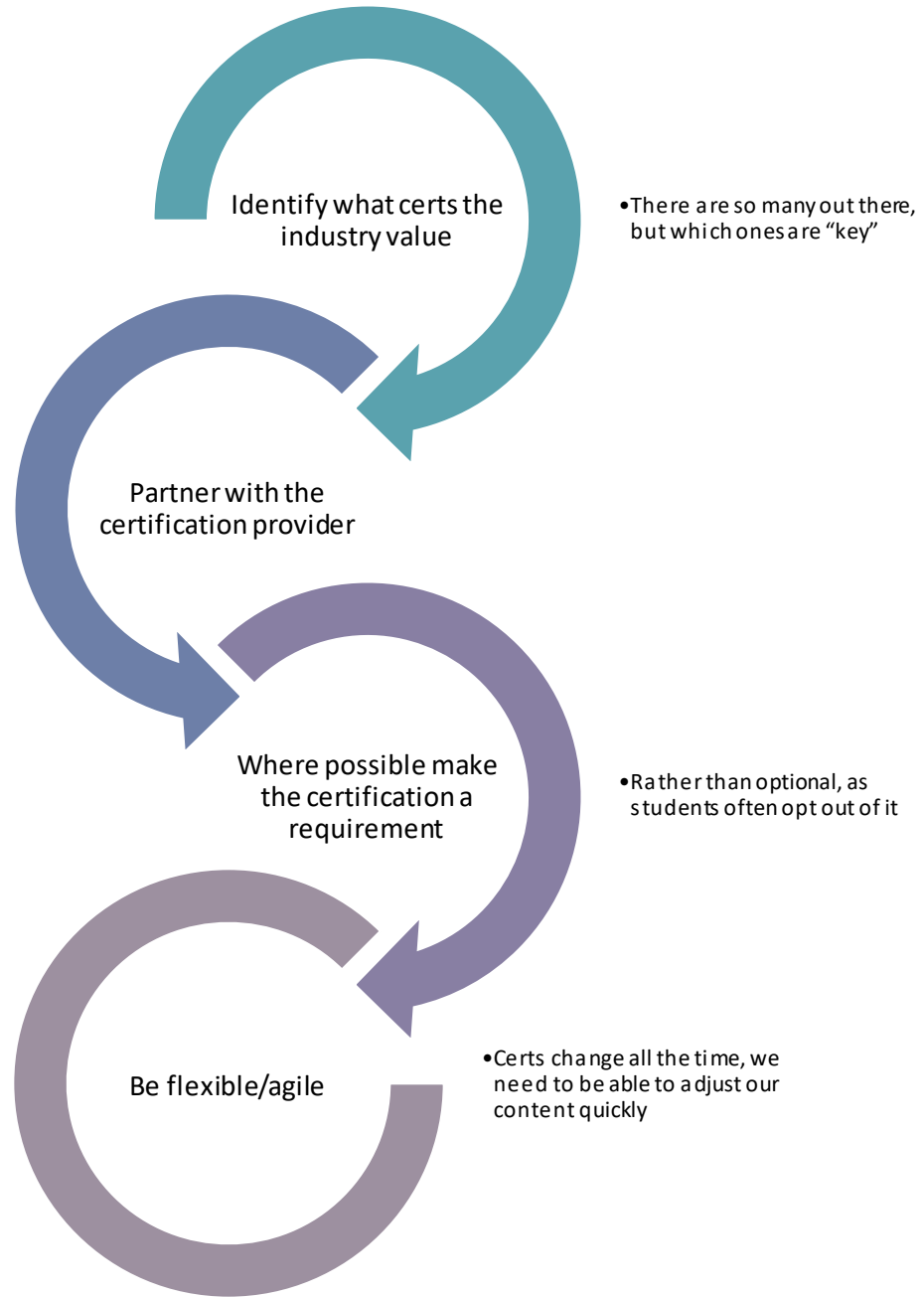
More Certifications

Additional certifications will be considered in 2024

This includes more certifications within the same technology programs, but also within other SSTE programs and other schools

Some of our current partnerships have certifications applicable to other disciplines

Take away points



The background is a deep blue with a fine, woven texture. A large, stylized letter 'C' is formed by a series of overlapping, slightly curved blue ribbons or fabric strips, creating a three-dimensional effect. The text 'Thank you' is centered within the negative space of the 'C' shape.

Thank you