Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
Project Planning							
Integral Calculation : $T = \int_0^N t_i di T$	roject time across	N tasks					
Derivative Calculation: \$\$\frac{dN}{dt} \$\$ <i>Rate of task</i>							
Resource Management	•						
Integral Calculation : $R = 10^T r(t) dt \$	esource allocation	n (labor, equ	uipment).				
Derivative Calculation : \$\$ \frac{dR}{dt} \$\$ Rate of reso		. 1	1 /				
⚠ Risk Management							
Integral Calculation : \$\$ I = \int_0^T i(t) dt \$\$ Cumulation	tive risk impact.						
Derivative Calculation : \$\$ \frac{dR}{dt} \$\$ Rate of risk	occurrence.						
■ Renewable Energy Integration							
> □ Wind Energy							
Energy Harvested: $SE = \int_0^T \frac{1}{2} \right$	^3 \eta dt \$\$						
Rate of Change: \$\$ \frac{dP}{dt} \$\$							
☀ Solar Energy							
Efficiency : $\$ \eta = \frac{E_{\text{generated}}}{E_{\text{generated}}}}{E_{\text{generated}}}	vt/incident\\\ \$\$						
Rate of Generation: $\$ \frac{dE}{dt} = P(t) \\$	κι (meident)) γ φφ	<u>'</u>					
♦ Hydroelectric Power							
H-1							
Hydraulic Head: $\$ H = \int_{z_1}^{z_2} dz \$\$ Rate of Flow: $\$ \frac{dQ}{dt} \$\$							
Infrastructure Design & Smart S	Systems						
X □ Infrastructure Planning	3 y stellis						
5							
Total Time: $T_{\text{total}} = \int_0^N t_i di $							
Task Completion Rate: \$\$ \frac{dT}{dt} \$\$ □ Design Methodologies							
_ Design Methodologies							
Resource Allocation : $R = \int_0^T r(t) dt $							
Design Progress Rate: \$\$ \frac{dD}{dt} \$\$							
& Management Practices							
Total Cost : $SC_{\text{total}} = \int_0^T c(t) dt $							
Cost Increase Rate: \$\$ \frac{dC}{dt} \$\$							
♥ Smart Grids & IoT							
Smart Grid Savings							

⊕ IoT Data Flow

Data Collected: $\D_{\text{cond}} = \int D_{0^T d(t) , dt }$

Transmission Rate: \$\\frac{\{dD\}{\{dt\}} \$\\$

Credential-Linked Record Book (2025-10-08 Snapshot)

Platform/Institution	Item	Sale Price	Amendme nt	Final Cost	Award	Library Usage	Booking
Shoprite/CNA/Elektor	Elektor Starter Kit	R450	0	R360	Electronics Fundament als	3h	Sixty60 Delivery
GitHub	Reward Model Deployme nt	\$120	(\$40)	\$80	Contributo r Badge	3h	CI/CD Run
Alison Learning	Diploma in EE	\$124.46	-25%	\$93.35	CPD Diploma	6h	Career Tool
Schneider Electric	Smart Panel	R12,000	-R2,000	R10,000	Energy Mgmt Complianc e	3h	Eaton Audit
Eaton Power Advantage	9PX UPS	R18,000	-R3,000	R15,000	Power Mgmt Fundament als	2h	Workshop
ECSA/Home Affairs	Engineer Registratio n	R1,500	0	R1,000	Registered Engineer	4h	Permit Interview
SASSETA/CCMA	Labour Law Training	R1,200	0	R800	Dispute Resolution	3h	CCMA Hearing

Would you like this scaffolded into a bilingual (English-French) printable dashboard, or extended into a modular Visual Basic export logic for GitHub and SAQA/NQF integration? I can also help you map this into a logigramme or algorigramme for audit traceability.

244.46	-40.25	204.21	0	0	0

	E Date	Institution /	Litem / Module	š Sa Prid	Amendme
		10/8/2025 CNA /	Elektor Starter Kit	R450	0
adata index		10/8/2025 GitHub	Model		\$120 (\$40)

10/8/2025	Eaton Power Advantage	9PX UPS System	R18,000
10/8/2025	ECSA / Home Affairs	Engineer Registratio n	R1,500
10/8/2025	SASSETA / CCMA	Labour Law Training	R1,200
10/8/2025	Sci-Bono Discovery Centre	Electrical Wiring Kit	R450
10/8/2025	St Peace College	Engineerin g Drawing Textbook	R350
10/8/2025	Atlantic Internation al University	MBM302 Master Thesis Review	\$450
10/8/2025	NRF / AIU	MATLAB Research License	R12,000

	10/8/2025		NSF / F1000Rese arch		Open Access Publicati Fee	on		\$1,20
	10/8/2025		Power Johannesb		Smart Meter Installation	on		R3,200
	10/8/2025		GitHub / Azure DevOps		CI/CD Pipeline Subscrip	tio		\$12
								177
netadata								
	10/8/2025	Metropolit an Police UK	CCTV Footage for Research	£500	-£200	£300	Publication Approved - F1000Rese arch	3h
	10/8/2025	NBCPSS / PSSPF / CCMA	Private Security Complianc e Training	R1,200		0 R800	Workplace Dispute Resolution	3h
Would you like this formatted into a bilingual printable	;)			
Column1		Column2	Column3	Column4	Column5	Column6	Column7	Column8
Statistical Award Balance for audit and legacy m								
The Credential Record Tableaux Li	ne (Ext	tended I	Format)					
		·						J.
■ Date		Institution / Platform	l	** Item / Module		& Sale Price		Amendm nt
	10/8/2025	Snoprite /		Elektor		R450		
	10/8/2025	Elaletan		Starter Kit		\$120)	
	10/8/2023	Оппио		M. J.1		\$120		(\$40
metadata index						120	0	-4

Schneider Electric Smart Panel

R12,000

Column8

Historiogram Equations

These equations model cumulative and rate-based metrics across your record book:

Total Credential Cost: $SC = \int 0^T c(t) \, dt \,$

Award Frequency Distribution: $\$ A_i = \frac{n_i}{N} \\$ Where AiA_i is the proportion of award type ii, nin_i is the count of that award, and N Balance of Amendments vs Final Cost: $\$ B = \sum_{i=1}^N (s_i + a_i - f_i) \\$ Where sis_i is sale price, aia_i is amendment, fif_i is final cost Library Usage Histogram: $\$ L(t) = \sum_{i=1}^N i \cdot \delta(t - t_i) \\$ Where lil i is hours used, tit i is timestamp, $\$ \delta is Dirac delta functions.

™ Total Cost Analysis Table

1 Otal Cost Milalysis Labic					
Category	Total Sale Price	Total Amendme nt	Total Final Cost	Booking Cost	Net Cost
Education	R800	0	R610	R200	R810
Engineering Systems	\$570	(\$190)	\$380	\$200	\$580
Energy Compliance	R15,200	-R2,800	R12,400	R1,000	R13,400
Statistical Award Balance	570	-190	380		
Award Type	Count	% of Total	Avg Final Cost	Avg Library Usage	
Electronics Fundamentals	1	10%	R360	3h	
Contributor Badge	1	10%	\$80	3h	
Energy Mgmt Compliance	1	10%	R10,000	3h	
Power Mgmt Fundamentals	1	10%	R15,000	2h	
Registered Engineer	1	100/	R1,000	4h	

Column1 Column2 Column3 Column4 Column5 Column6 Column7 equations, and total cost analysis.

■ Date	Institution / Platform	Litem / Module	Š Sale Price	Amendme nt Sin	/ 1	EN Library Usage
	Shoprite / 10/8/2025 CNA / Elektor	Elektor Starter Kit	R450	0 R360	Electronics Fundament 3h als	1
	10/8/2025 GitHub	Reward Model Deployme nt	\$120	(\$40)	S80 Contributo r Badge 3h	1

Historiogram Equations for Behavioral Fusion

Fusion of User Behavior: $F_{ui} = w_0 O_{ui} + w_a A_{ui} + w_b B_{ui}$ \$\$ Where OuiO_{ui}, AuiA_{ui}, and BuiB_{ui} are order, follow Cosine Similarity for User Fusion: \$\$ S f(u,v) = \cos(\text{theta}) = \frac{F u \cdot F v}{\F u \ | F v|} \$\$\$

Total Similarity Score: S = S(u,v) - S(u,v) - S(u,v) - S(u,v) + S(u,v) +

Top-K Recommendation Set: $RS_u = \{i_1, i_2, ..., i_K\}$ *Where KK is the mean of historical orders for user* uu

6 Total Cost Analysis Table

Category	Sale Price	Amendme nt Final	Cost Booking Cost	Net Cost
Starter Kit	R450	0 R360	Free	R360
Reward Deployment	\$120	(\$40)	\$80 Free	\$80

▲ AGI Collaboration & E-Commerce Integration

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
Covered:							
☐ Genetic Engineering & Biomanufacturing							

- **▲** Data Processing & Hosting Services
- B Blockchain & Cryptocurrency Applications
- **Credential Record Book & Bibliotech Integration

™ Credential Record Tableaux Line Format

⊞ Date	Institution / Platform	≝ Item / Module	Š Sale Price	Amendme nt	Award 8 / Reward Certificate Points
	10/8/2025 Biotech Institute	CRISPR Lab Kit	R1,200	0 R900	Certificate - Genetic Modificati on

	10/8/2025 Cloud Academy	Kubernetes Masterclas s	\$200	(\$50)	Certificate - Containeri zation & Microserv ces	100 pts
	10/8/2025 Blockchair	n Smart v Contract	\$180	(\$60)	\$120 Certificate	120 pts
☐ Visual Basic Core Logic						

vb Visual Basic Core Logic								
Credential Record Tableaux Line	Forma	1 Column1	Column2	Column3	Column4	Column5	Column6	Column7
⊞ Date		Institution / Platform	Litem / Module	Š Sale Price	Amendme nt	∜ Final Cost	Award / Certificate	g Reward Points
	10/8/2025	CPS Institute	CPS Architectur e & IoT Lab	R1,500	0	R1,100	Certificate - CPS Integration	180 pts
	10/8/2025	Blockchain Academy	DLT Credentiali ng Module	\$200	(\$60)	\$140	Certificate - Blockchain in Education	150 pts
	10/8/2025	GitHub	AGI Fusion Engine Deployme nt	\$120	(\$40)	\$80	Contributo r Badge	100 pts
☐ Visual Basic Core Logic								
vb								
Column1 Adult Learning & Curriculum Design		Column2	Column3	Column4	Column5	Column6	Column7	Column8
* Quantum Computing in Systems Engineering								
☐ Neurotechnology in Educational Technology								
Credential Record Book & Bibliotech Integration								
Credential Record Tableaux L	ine For	mat						
= Date		Institution / Platform		Ltem / Module		Š Sale Price	Amendme nt	

	10/8/2025	AdultEd Institute		Curriculu m Design for Adult Learners		R1,000	0	
	10/8/2025		Quantum Systems Lab		Quantum Algorithms & Circuits			\$180
	10/8/2025		NeuroEd Research Centre		Neurotech nology in Education			\$200
□ Visual Basic Core Logic vb ' Module: LifelongLearningCredentialDashboar Option Explicit Column1	rd	Column2	Column3	Column4	Column5	Column6	Column7	
		mat					s.	Column8
<u></u>		mat	1	Litem / Module		& Sale Price	£	
Toredential Record Tableaux Li		mat Institution / Platform	1	* Item /		Š Sale	₽ Amendme	
Credential Record Tableaux Li	ine Fori	mat Institution / Platform AdultEd	1	Item / Module Curriculu m Design for Adult		& Sale Price	Amendme nt	
Credential Record Tableaux Li	ine Fori	mat Institution / Platform AdultEd Institute	1	Item / Module Curriculu m Design for Adult		Sale Price R1,000	Amendme nt	

☐ Visual Basic Core Logic								
vb								
Column1		Column2	Column3	Column4	Column5	Column6	Column7	Column8
Storyline				- Columnia	Condition	Columno	Column	
25.5 Gamification: Game mechanics, learner engage	ement							
25.7 Assessment Strategies: Formative/summative e		ch-driven me	etrics					
T Credential Record Tableaux L								
■ Date		Institution / Platform	Litem / Module	& Sale Price	Amendme nt	∜ Final Cost	Award / Certificate	g Reward Points
	10/8/2025	Academy	RPA in Battery Manufactu ring	R1,200	0	R900	Certificate - RPA Process Control	150 pts
	10/8/2025	Renewable Ed		\$180	(\$60)	\$120	Certificate	130 pts
Visual Basic Logic Snippet vb Type CredentialRecord DateStamp As Date Institution As String								
Column1		Column2	Column3	Column4	Column5	Column6	Column7	Column8
₩ Wholesale Trade in Industrial Engineering								
Advanced Wireless Communications								
-								
Credential Record Book & Bibliotech Integration								
Credential Record Tableaux L	ine Fori	mat						
T Date		Institution / Platform	Litem / Module	Š Sale Price	Amendme nt	∜ Final Cost	Award / Certificate	g Reward Points
	10/8/2025	TradeTech Academy	Inventory Control & EOQ Analysis	R1,000	0	R750	Certificate - Inventory Optimizati on	120 pts
	10/0/2025	Wireless	RF	\$180	(\$60)	\$120	Cartificata	150 pts
	10/8/2025	Systems	Snectrum					
☐ Visual Basic Logic Snippet	10/8/2025	Systems	Snectrum					
	10/8/2025	Systems	Snectrum					
☐ Visual Basic Logic Snippet vb Column1	10/8/2025		Column3	Column4	Column5	Column6	Column7	Column8

4 Electrical Systems in Construction & Civil Engineering Power Quality, Smart Grids & High Voltage Engineering Credential Record Book & Bibliotech Integration **M** Credential Record Tableaux Line Format Award Institution **H** Item / Sale **Date** Amendme Reward Module **Price** Cost Certificate Points **Platform** Smart Certificate InfraTech Grid & - Smart 10/8/2025 R1,200 0 R900 160 pts Academy IoT Infrastruct Integration ure 10/8/2025 CleanEner Ecotechnol \$120 Certificate 140 pts \$180 (\$60) gy Institute ogy Clean **Visual Basic Logic Snippet** Type CredentialRecord DateStamp As Date Institution As String Column1 Column2 Column3 Column4 Column5 Column6 Column7 Column8 Electronic Engineering in Civil Infrastructure ⊕ Immutable Data Storage for Web Design ☆ Clean Energy & Ecotechnology Applications Credential Record Book & Bibliotech Integration **M** Credential Record Tableaux Line Format Institution **E** Item / **Date** Amendme Module **Price** nt **Platform** ппатесп 10 I III 10/8/2025 R1,200 WebData 10/8/2025 Institute Certificate - Resilient GraphQL & SSR Integration \$180 (\$60)\$120 Web 140 pts 3h Lab (1h) Architectur e

	10/8/2025	CleanEner gy Institute		\$200	(\$50)	\$150	Certificate - Clean Energy Systems	150 pts
☐ Visual Basic Logic Snippet								
Column1		Column2	Column3	Column4	Column5	Column6	Column7	Column8
Domains Covered:		Columniz	Columns	Columna	Columns	Columno	Column	coramno
Cyber-Physical Systems in Telecommunications								
☐ AI & Machine Learning for Software Engineering								
Credential Record Book & Bibliotech Integration								
Credential Record Tableaux Li	ne For	mat						
■ Date		III		E Item /		Š Sale		Ą.
	10/8/2025	WebData Institute						
& SSR Integration			\$180		(\$60)		\$120)
	10/8/2025		TelecomC PS Academy		Real-Time CPS Analytics		R1,500	
	10/8/2025	AI Software	ML for	\$200	(\$50)	\$150	Certificate – AI	150 pts
□ Visual Basic Logic Snippet								
Type CredentialRecord								
DateStamp As Date								
Column1		Column2	Column3	Column4	Column5	Column6	Column7	Column8
Domains Covered:								
Autonomous Vehicles & Drones in EV Engineerin	g							
5 Electrochemical Engineering for Infrastructure								
■ Energy Storage & Battery Technology								
Credential Record Book & Bibliotech Integration								
5								

T Date	Institution / Platform		* Item / Module		& Sale Price	Amendme nt
	EV 10/8/2025 Mobility Institute		ML for Autonomo us Navigation		R1,500	0
	10/8/2025	ElectroInfr a Academy		ruei Celis &		\$180
	10/8/2025	BatteryTec h Lab		Future Trends in Battery Technolog y		\$200
☐ Visual Basic Logic Snippet						

™ Credential Record Tableaux Line Format

■ Date	■ Topic	□ Method Used	Q Optimizat ion	□ Tool	Award	g Reward Points	Notes
10/8/2025	Load Flow Analysis	Newton- Raphson	Genetic Algorithm	MATLAB	Certificate – Power Systems	150 pts	IEEE 14- bus validation, loss minimized
10/8/2025	PID Controller Tuning	Ziegler- Nichols	Gradient Descent	Simulink	Certificate – Control Design	120 pts	Stability improved, overshoot reduced

Column2 Column3 Column4 Column5 Column6 Column7 Column1 Track credential-linked learning across wind energy, digital signal processing, communication systems, and electrochemical infrastructure

Analyze formulas, simulation parameters, and optimization logic

Export records to GitHub, SAQA/NQF, and

with audit-grade traceability

Scaffold logigramme and algorigramme for curriculum flow, credential logic, and behavioral fusion

M Credential Record Tableaux Line Format

■ Date	Institution / Platform	Mod		Š Sale Price	Amendme nt
	10/8/2025 WindTech Academy	Wind Turbin Optimi on		R1,200	0
	10/8/2025	SignalLab	rounei & Z-		\$180
	10/8/2025	ElectroInfr a Academy	Butler- Volmer & Battery Design		\$200
Visual Basic Logic Snippet					

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
optimization							
Export records to GitHub, SAQA/NQF, and							
with traceability							
Scaffold logigramme and algorigramme for curriculum flow, cr	edential logi	c, and behav	ioral fusion				

™ Credential Record Tableaux Line Format

Ⅲ Date		eution / form	Litem / Module		Sale rice Ai	mendme nt	
	Signa 10/8/2025 m Acade		Wireless Signal Propagatio n	R1,20	00	0	
	10/8/2025	MediaTech Institute	1	Camera &			\$180

	10/8/2025		GreenEner gy Lab		Wind Turbine Optimizati on			\$200
☐ Visual Basic Logic Snippet								
vb								
Column1	C	olumn2	Column3	Column4	Column5	Column6	Column7	Column8
design								
Apply integral and derivative logic to model perform	nance, engager	nent, and o	ptimization					
Export records to GitHub, SAQA/NQF, and			1					
with audit-grade traceability								
Scaffold logigramme and algorigramme for curriculu	ım flow, crede	ntial logic.	and behavi	oral fusion				
Credential Record Tableaux L	ine Form	at						
III Cicuciniai Record Tabicaux L	IIIC FOI III							
		;;;					عو	
■ Date	I	nstitution		ដ Item /		S Sale	Amendme	
Date		/		Module		Price	nt	
	·	Platform					IIt	
	10/8/2025 n	signalCom n Academy		RF Spectrum & Path Loss Analysis		R1,200	()
	10/8/2025		MediaTech Institute		Mulu- Camera &			\$180
	10/8/2025		SocialReac h Lab		Engageme nt & Conversio n Calculus			\$200
☐ Visual Basic Logic Snippet balance total								

Column9	

Notes
GitHub + SAQA/NQF
GitHub +
SAQA/NQF + GitHub
GitLab + Azure
LMS + GitHub
CCMA + Court Archive
MERSETA + Home Affairs

Column9	Column10 Column11	Column12 C	Column13 Column14	Column15 Column	16 Column17	Column18	Column19
	∜ Final Cost	Award / Certificate	E Library Usage	Book (Type		Booking Price	
	R360	Fundamenta	3h	Deliver	У	Free	
	\$80	Contributor	3h	(1k)	Kuii	Free	
-R2,000	R10,000	N	Energy Mgmt Compliance	3h	Eaton Audit (1h)		R500

-R3,000		R15,000	Power Mgmt Fundamenta Is	2h	Diagnostics Workshop (1h)	R500
	0	R1,000	Registered Professional Engineer	4h	Permit Interview (1h)	R300
	0	R800	Workplace Dispute Resolution	3h	CCMA Hearing (1h)	R250
	0	R300	Basic Electrical Safety	3h	Robotics Lab (2h)	R200
	0	R250	Fundamenta ls of Electrical Systems	4h	Control Systems Lab (2h)	R180
(\$15	50)	\$300	Master of Engineering Systems – Thesis Accepted	6h	Advisor Session (1h)	\$100
-R8,000		R4,000	IJETR3156 – Paper Accepted	5h	Peer Review Session (1h)	R500

	(\$800)	\$400	Accepted		5h	Editorial Review Session (1h)	\$150
	0	R2,400	Energy Efficiency Complianc		2h	Economic Data Workshop	R500
	(\$60)	\$60	Trailblazer Superbadg – Data Cloud	Δ	ŀh	Tableau Dashboard Workshop (2h)	\$200
	-1010	760 760					
Officer Interview (1h)	£100	ORCID registry + MOPAC Archive					
CCMA Hearing (1h)	R250	MERSETA dashboard + Home Affairs compliance					
Column9	Column	10 Column11	Column12 Column13	Column14 C	Column15 Column	16 Column17 Co	lumn18 Column19
	∜ Fir Cos	st	Award / Certificate	Usage	Booking (Type & Duration)	I	Booking Price
	R360	\$80	Fundamenta Contributor	3h I	Delivery	Fro Fro	
	80	80 0	Dadaa	0	11.\	TI	

-R2,000	R10,000	Energy Mgmt Compliance	3h	Eaton Audit (1h)	R500
N is total awards tion					
Column9 Co	lumn10 Column11				

★ Booking (Type & Duration)	Booking Price	Notes / Integration Points
Sixty60 Delivery (1h)	Free	GitHub + SAQA/NQF dashboard
CI/CD Run (1h)	Free	GitHub + AGI Collaboratio n Record
ving, and browsing counts; weights wo=1w_o = 1, wa=0.5w_a = 0.5, wb=0.5w_b = 0.5		
Column9	Column10	Column11
Library Usage	♣ Booking (Type & Duration)	Booking Price
4h	Fermentatio n Workshop (2h)	R250

3h	CI/CD Lab (1h) Free	GitHub + Azure DevOps + SAQA/NQF
2h	Tokenizatio n Lah (1h)	GitHub + SAOA/NOF

Column8	Column9	Column10	Column11
Library Usage	♣ Booking (Type & Duration)	Booking Price	Notes / Integration Points
4h	Sensor Network Workshop (2h)	R300	GitHub + SAQA/NQF +
3h	Smart Contract Lab (1h)	Free	GitHub + ORCID Registry + SAQA/NQF
3h	CI/CD Run (1h)	Free	GitHub + AGI Collaboratio n Record

	∜ Final Cost		Award /		8 Reward Points	I	Library Usage	,		Booking (Type & Duration)
Column9	Column10	Column11	Column12	Column13	Column14	Column15	Column16	Column17	Column18	Column19
	(111)		n Record							

	R750	Certificate – Adult Learning Design		120 pts		3h			Needs Assessment Workshop (2h)
	(\$60)	\$120	Ceruncate – Quantum Optimizatio		150 pts		4h	Qiskit Simulation Lab (1h)	
	(\$50)	\$150	Certificate - Brain- Interface Learning Design		140 pts		3h	EEG Interface Workshop (1h)	
Column9	Column10 Co	olumn11 Column12	Column13	Column14	Column15	Column16	Column17	Column18	Column19
Column9	Column10 Co	olumn11 Column12 Award / Certificate		Y Reward Points		Column16 Library Usage		Column18	★ Booking (Type &
Column9	∜ Final	ଵ Award /		8 Reward		₩ Library		Column18	★ Booking
	∜ Final Cost	Award / Certificate Certificate - Adult Learning		Y Reward Points		E Library Usage		Qiskit Simulation Lab (1h)	Booking (Type & Duration) Needs Assessment Workshop

Column9		Column10	Column11	Column12
	TA Library Usage	★ Booking (Type & Duration)	Booking Price	Notes / Integration Points
ŀh		UiPath Lab (2h)	R250	GitHub + SAQA/NQF +
h		Storyline Workshop	Free	GitHub + SAOA/NOF
Column9		Column10	Column11	Column12
		A		
	11\ Library Usage	♣ Booking (Type & Duration)	Booking Price	Notes / Integration Points
h		ABC Analysis Lab (2h)	R200	GitHub + SAQA/NQF +
h		Antenna Design	Free	GitHub + SAOA/NOF
olumn9		Column10	Column11	Column12

	E Library Usage	Booking (Type & Duration)	Booking Price	Notes / Integration Points
4h		IoT Lab (2h)	R250	GitHub + SAQA/NQF +
3h		Solar Simulation	Free	GitHub + SAOA/NOF

Column9		Column10	Column11	Column12	Column13	Column14	Column15
R900	∜ Final Cost	Award / Certificate Certificate Certificate	8 Reward Points 160 pts	Library Usage	Booking (Type & Duration) Sensor	Booking Price	Notes / Integration Points
Free		GitHub + SAQA/NQF + ORCID Registry					

3h	Solar Simulation Workshop (1h)	Free	GitHub + SAQA/NQF + Bibliotech							
Column9	Column10	Column11	Column12	Column13	Column14	Column15	Column16	Column17	Column18	Column19
	∜ Final		Award /		Y Reward		IN Library		*	
Certificate – Resilient Web Architecture		140 pts		3h		GraphQL Lab (1h)		Free		GitHub + SAQA/NQF + ORCID Registry
	0	R1,100		Certificate - CPS Optimizatio n		160 pts		4h		IoT Sensor Lab (2h)
3h	Model Denlovment	Free	GitHub + SAOA/NOF	,						
Column9	Column10	Column11	Column12	Column13	Column14	Column15	Column16	Column17	Column18	Column19

		∜ Final Cost		Award / Certificate			Library Usage			Booking (Type & Duration)
		R1,100		Certificate - Autonomou s AI Systems	160 pts		4h			Sensor Fusion Lab (2h)
(\$6	50) \$12	0	Cermicate - Sustainable			150 pts		3h	nyurogen Electrolysis	
(\$5	(0) \$15	0	Certificate – Energy Storage Innovation			140 pts		3h	Performanc e Metrics Lab (1h)	
olumn9	Column10	Column11	Column12	Column13	Column14	Column15	Column16	Column17	Column18	Column19

		∜ Final Cost		Award /	8 Reward Points		M Library Usage			Booking (Type & Duration)
		R900	R S	Certificate Lenewable ystems Design	160 pts		4h			CFD Simulation Lab (2h)
	(\$60)	\$120	- DSP &			150 pts		3h	Workshop	
	(\$50)	\$150	Certificate - Electrochem ical Infrastructur e			140 pts		3h	Cell Configurati on Lab (1h)	
Column9	Colu	mn10 Column11	Column12 C	olumn13	Column14	Column15	Column16	Column17	Column18	Column19
		Final Cost	Award / Certificate		Y Reward Points		Library Usage	,		★ Booking (Type & Duration)
	R90	0	Certificate – RF & Path Loss Analysis		160 pts		4h			FFT & OFDMA Lab (2h)
				ermcate					Scelle	

	(\$50)	\$150	Certificate - Renewable System Design		140 pts		3h	CFD & Noise Simulation (1h)	
Column9	Column10	Column11 Colu	mn12 Column13	Column14	Column15	Column16	Column17	Column18	Column19
									*
	∜ Final Cost		ward / tificate	Y Reward Points		Library Usage			Booking (Type & Duration)
	R900	– Wi Syste	ificate ireless ems neering	160 pts		4h			FFT & OFDMA Lab (2h)
	(\$60)	\$120	Cermicale – Broadcast		150 pts		3h	Scene Transition	
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	¥ V	Draduation Certificate		r · P			Content	

Column20	Column21
Notes /	
Integration	
Points	
SAQA/NQF	
daabbaard	
GitHub +	
	GitLab +
	Azure
	DevOps
	billing
	portal

LMS + GitHub audit log

CCMA +
Master
Court
archive

MERSETA + Home Affairs compliance log

SAQA/NQF Level 4, WA Code EA2

SAQA/NQF Level 5, moderation submitted

IJETR3156
- Accepted,
LMS +
AIU Library

NRF dashboard + AIU Library ORCIDlinked,
PubMed
Central
indexed
DIMK
Archive +
Municipal

GitLab audit log +

Column20

Column21

Notes /
Integration
Points

SAQA/NQF dashbaard GitHub +

GitLab + Azure
DevOps billing
portal

Column20	Column21	Column22	Column23
			Notes /
Booking			Integratio
Price			Points

R200			SAQA/NQF Level 6, GitHub +
	Free	GILHUD + SAQA/NQF + ORCID	
	Free	GitHub + SAQA/NQF +	
Column20	Column21	Column22	Column23
Booking Price			Notes / Integration Points
R200			SAQA/NQF Level 6, GitHub +
R200			Level 6,
R200	Free	GIUHUD + SAQA/NQF + ORCID	Level 6,
R200	Free	SAQA/NQF + ORCID	Level 6,

Column20	Column21	Column22	Column23
		Notes /	
			GitHub +
	R250		SAQA/NQF
			+
Column20	Column21	Column22	Column23

Booking Price			Notes / Integration Points
R250			GitHub + SAQA/NQF +
	Free	SAQA/NQF	
	Free	GitHub + SAQA/NQF +	
Column20	Column21	Column22	Column23

Booking Price			Notes / Integration Points
R250			GitHub + SAQA/NQF +
		Olunuo +	
	Free	SAQA/NQF	
		GitHub +	

Free

SAQA/NQF

Column20	Column21	Column22	Column23
	Booking Price		Notes / Integration Points
	R250		GitHub + SAQA/NQF +
		Оппио ⊤	

Free		GitHub + SAQA/NQF +	
Column20	Column21	Column22	Column23
	■ Booking		Notes / Integration
	Price		Points
	Price R250		Points GitHub + SAQA/NQF +
			GitHub + SAQA/NQF
Free		Onnuo + SAQA/NQF	GitHub + SAQA/NQF +
Free			GitHub + SAQA/NQF +
		SAQA/NQF GitHub + SAQA/NQF	GitHub + SAQA/NQF +
		SAQA/NQF GitHub + SAQA/NQF	GitHub + SAQA/NQF +
		SAQA/NQF GitHub + SAQA/NQF	GitHub + SAQA/NQF +