Applying SFIA's skills to cloud-computing

SFIA® FOUNDATION

Cloud infrastructure and operations   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
System software	SYSP			3	4	5		
IT infrastructure	ITOP	1	2	3	4	5		
Network design	NTDS			3	4	5	6	
Network support	NTAS		2	3	4	5		
Storage management	STMG			3	4	5	6	
Database administration	DBAD		2	3	4	5		
Availability management	AVMT				4	5	6	
Configuration management	CFMG		2	3	4	5	6	
Change control	CHMG		2	3	4	5	6	

Software engineering / DevOps   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Software design	SWDN		2	3	4	5		
Programming/software development	PROG		2	3	4	5	6	
Testing	TEST	1	2	3	4	5	6	
Configuration management	CFMG		2	3	4	5	6	
Systems integration and build	SINT		2	3	4	5	6	
Release and deployment	RELM			3	4	5	6	
Software configuration	PORT			3	4	5	6	

Edge computing / IoT   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Real-time/embedded systems development	RESD		2	3	4	5	6	
Hardware design	HWDE			3	4	5	6	

Platform management   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Application support	ASUP		2	3	4	5		
Configuration management	CFMG		2	3	4	5	6	
Systems and software life cycle engineering	SLEN				4	5	6	7
Methods and tools	METL			3	4	5	6	
System software	SYSP			3	4	5		

Cloud Financials [FinOps]   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Financial management	FMIT				4	5	6	
Benefits management	BENM					5	6	
Capacity management	CPMG				4	5	6	
Business intelligence	BINT		2	3	4	5		
Demand management	DEMM					5	6	
Measurement	MEAS			3	4	5	6	

Cloud security and resilience   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Security operations	SCAD	1	2	3	4	5	6	
Continuity management	COPL		2	3	4	5	6	
Incident management	USUP		2	3	4	5		
Problem management	PBMG			3	4	5		
Vulnerability assessment	VUAS		2	3	4	5		

Cloud architecture and design   3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Enterprise and business architecture	STPL					5	6	7
Requirements definition and management	REQM		2	3	4	5	6	
Solution architecture	ARCH				4	5	6	
Business modelling	BSMO		2	3	4	5	6	
Systems design	DESN			3	4	5	6	
Business situation analysis	BUSA			3	4	5	6	
Feasibility assessment	FEAS			3	4	5	6	

Cloud product management   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Product management	PROD			3	4	5	6	
User research	URCH			3	4	5	6	
User experience analysis	UNAN			3	4	5		
User experience design	HCEV			3	4	5	6	
User experience evaluation	USEV		2	3	4	5	6	

Cloud sourcing & supplier mgt   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Sourcing	SORC		2	3	4	5	6	
Contract management	ITCM			3	4	5	6	
Supplier management	SUPP		2	3	4	5	6	7
Service catalogue management	SCMG			3	4	5		

Cloud data and analytics   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Database administration	DBAD		2	3	4	5		
Machine learning	MLNG		2	3	4	5		
Data science	DATS		2	3	4	5	6	7
Data management	DATM				4	5	6	
Data engineering	DENG		2	3	4	5	6	

Decommissioning   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Systems installation and removal	HSIN	1	2	3	4	5		
Facilities management	DCMA			3	4	5	6	
Asset management	ASMG		2	3	4	5	6	

Cloud strategy and leadership   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Strategic planning	ITSP					5	6	7
Business process improvement	BPRE					5	6	7
Portfolio management	POMG					5	6	7
Emerging technology monitoring	EMRG				4	5	6	
Innovation	INOV					5	6	7
Investment appraisal	INVA				4	5	6	

Cloud governance and compliance   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Information security	SCTY			3	4	5	6	7
Information assurance	INAS			3	4	5	6	7
Personal data protection	PEDP					5	6	
Governance	GOVN						6	7
Risk management	BURM			3	4	5	6	7
Audit	AUDT			3	4	5	6	7

Cloud migration and transformation   3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Organisational capability development	OCDV					5	6	7
Stakeholder relationship management	RLMT				4	5	6	7
Technology service management	ITMG					5	6	7
Systems development management	DLMG					5	6	7
Organisational change management	CIPM			3	4	5	6	
Programme management	PGMG						6	7
Project management	PRMG				4	5	6	7
Portfolio, programme and project support	PROF		2	3	4	5	6	
Acceptance testing	BPTS		2	3	4	5	6	

Cloud upskilling and talent mgt   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Organisation design and implementation	ORDI				4	5	6	7
Competency assessment	LEDA			3	4	5	6	
Workforce planning	WFPL				4	5	6	
Resourcing	RESC			3	4	5	6	
Professional development	PDSV				4	5	6	

Cloud education and training   1 2 3 4 5 6 7

Skill	Code	1	2	3	4	5	6	7
Learning design and development	TMCR			3	4	5		
Learning delivery	ETDL		2	3	4	5		

A **cloud operating model** need skills to execute the technical cloud-computing and also a range of other skills which are re-useable in the wider organisational context.

For **professionals outside of the technical cloud domain**, a foundational understanding of cloud-computing principles is necessary. They need the skills for their own specialism and the know-how to exploit and benefit form the opportunities offered by cloud-computing.