RED RIVER COLLEGE
OF APPLIED ARTS, SCIENCE AND TECHNOLOGY

INFORMATION SYSTEMS TECHNOLOGY DACUM

Facilitated by Mike Stuhldreier and Gene Semchych
February 7th and February 10th

DACUM Skill Rating Scale

1 - Can perform some parts of this skill satisfactorily but requires assistance and/or supervision to perform the entire skill.
2 - Can perform this skill satisfactorily but requires periodic assistance and/or supervision.
3 - Can perform this skill competently without assistance or supervision.
4 - Can perform this skill competently without, assistance with more than acceptable quality, and with initiative/adaptability to unique situations.

DESIGN NETWORKS, SYSTEMS, AND DATABASES
A

Identify user requirements A1	Analyse user requirements A2	Evaluate feasibility A3	Analyse cost benefits A4	Demonstrate research skills A5	Identify relevant standards A6	Develop a prototype A7	Formulate test plans A8 E
1 2 **3** 4	1 **2** 3 4	**1** 2 3 4	**1** 2 3 4	1 2 **3** 4	**1** 2 3 4	1 **2** 3 4	1 **2** 3 4

Create documentation A9
1 **2** 3 4

DEVELOP AND DEPLOY NETWORKS, SYSTEMS, AND DATABASES
B

Identify tools for the task B1	Write code B2	Package code B3	Write technical tests B4 E	Write functional tests B5 E	Write performance tests B6 E	Build hardware B7	Analyse test results B8
1 **2** 3 4	1 2 **3** 4	1 **2** 3 4	1 **2** 3 4	1 **2** 3 4	1 **2** 3 4	1 2 **3** 4	1 2 **3** 4

Apply debugging skills B9	Deploy system B10	Apply testing procedures B11 E
1 2 **3** 4	1 **2** 3 4	1 2 **3** 4

MANAGE AND MAINTAIN NETWORKS, SYSTEMS, AND DATABASES
C

Secure data C1	Plan for disaster recovery C2	Develop policy C3	Identify work environment factors C4	Identify threats to systems C5	Identify opportunities for efficiencies / enhancements C6	Manage change C7	Interpret technical manuals C8
1 2 **3** 4	**1** 2 3 4	**1** 2 3 4	1 **2** 3 4	**1** 2 3 4	**1** 2 3 4	**1** 2 3 4	1 2 **3** 4

Manage parallel systems C9	Identify weaknesses C10	Design and apply continuity plans C11	Evaluate system integrity C12	Develop schedules C13
1 2 3 4	**1** 2 3 4	**1** 2 3 4	1 **2** 3 4	1 **2** 3 4

DEMONSTRATE COMMUNICATION SKILLS D

Demonstrate presentation skills D1				Create user guide D2				Use technical language D3				Use questioning skills D4				Choose language appropriate to audience D5				Interpret user needs / concerns D6				Compose e-mails D7				Use concise language D8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Demonstrate active listening skills D9				Interpret non-verbal communication D10				Plan and chair meetings D11				Practice negotiating skills D12				Use communication technology D13				Demonstrate non-verbal communication skills D14				Develop training plans D15				Explain processes, procedures, resources D16			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Explain ideas / concepts D17																															
1	2	3	4																												

MANAGE PROJECTS E

Write project plans E1				Estimate resources (time, dollars, HR) E2				Manage resources (dollars, time, HR) E3				Identify deliverables and scope E4				Manage scope and milestones E5				Develop communication plans E6				Manage risk E7				Manage user sign-off E8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Use project managements tools E9				Identify stakeholders E10				Apply PM 1 standards E11				Describe / define PM 1 principles E12																			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																

DEMONSTRATE LEADERSHIP SKILLS F

Develop a vision F1				Sell / champion a vision F2				Demonstrate diplomacy F3				Delegate tasks / responsibilities F4				Demonstrate decision making skills F5				Evaluate performance of others F6				Mentor others F7				Influence others F8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

DEMONSTRATE PROBLEM SOLVING SKILLS G

Define problem G1				Identify source of problem G2				Demonstrate creativity G3				Demonstrate analytical skills G4				Identify potential resources G5				Identify patterns G6				Implement patterns G7				Propose solutions G8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

DEMONSTRATE PROFESSIONALISM H

Demonstrate teamwork skills H1				Demonstrate collaboration skills H2				Demonstrate ethical behaviour H3				Demonstrate adaptability H4				Manage stress H5				Manage conflict H6				Maintain currency H7				Demonstrate a commitment to lifelong learning H8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Multi-task H9				Demonstrate time management skills H10				Identify strengths and weaknesses in self H11				Demonstrate a commitment to continuous self improvement H12				Develop contacts H13				Apply standards and regulations H14				Apply licensing standards H15							
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				

INTEGRATE SYSTEMS I

Identify core components I1				Compare and contrast systems I2				Analyse systems I3				Appraise feasibility of integration I4				Collect system information I5				Diagram systems I6											
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								

USE SYSTEMS TOOLS J

Use procedural language J1				Use XML J2 E				Use object oriented technology J3				Apply programming concepts J4				Use Dot Net framework J5 E				Use enterprise architecture J6				Use J2EE framework J7				Use version control software J8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Use track management tools J9				Create UML diagrams J10 E				Use W3C protocols J11 E				Use open source frameworks and tools J12 E				Use Java technologies J13				Use reporting tools J14				Use automated testing tools J15 E							
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				

USE DATABASE TOOLS K

Use SQL K1				Create store procedures K2				Create relational database structures K3				Create a data warehouse K4 E				Create triggers K5				Create indexes K6				Set-up database servers K7				Use database management tools K8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

USE NETWORK TOOLS L

Install windows systems L1				Install UNIX systems L2 R				Install Novell systems L3 R				Program routers and switches L4				Set-up network hardware L5				Set-up intrusion detection L6 E				Setup mail server L7				Create batch and script files L8			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Create hard drive images L9				Create logical diagrams L10				Implement and manage remote access technology L11 E				Implement and manage enterprise storage technology L12 E				Install Linux systems L13 E															
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												