

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.

**USE TOOLS
A**

Use measurement tools A1	Measure using metric and imperial systems A2	Convert measurements A3	Use power tools A4	Use hand tools A5	Maintain tools A6	Confirm calibration of tools A7	Use lay-up tools (Mandrel) A8
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 assembly tool (Jig) A9	Store tools A10	Use computers A11					
1 2 3 4	1 2 3 4	1 2 3 4					

**USE INDUSTRY RELATED EQUIPMENT
B**

Use hot bonder B1	Use Autoclave B2	Use CNC B3	Use curing ovens B4	Use cranes B5	Use forklift B6	Use vacuum pumps B7	Maintain equipment 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
Use band saws B9	Use lasers B10	Use pneumatic tools B11	Use heat press B12				
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4				

**WORK TO SPECIFICATIONS
C**

Select current revision C1	Read / interpret resident plan / op sheet C2	Read / interpret drawings and blueprints C3	Read / interpret data cards and tip sheets C4	Read / interpret gauges and measurement tools C5	Navigate through manuals (digital and hard copy) C6	Read / interpret manuals C7	Read / interpret MSDS 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
Apply math and science skills and concepts C9							
1 2 3 4							

**COORDINATE PROCESSES
D**

Plan and monitor work flow D1				Assemble tools and material D2				Coordinate with other areas D3				Identify problems / deficiencies D4				Implement changes D5			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

**WORK WITH TEMPLATES AND SHOP AIDS
E**

Verify correct template E1				Check cleanliness and serviceability E2				Use core locating templates E3				Use PLY locating template E4				Create custom molds / templates E5				Clean and service template E6				Use intensifiers and pressure pads E7				Store templates and shop aids 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	1	2	3	4

**BUILD THE KIT
F**

Identify the material F1				Verify parts list F2				Record batch numbers F3				Fill-out material traceability record F4				Perform visual inspection F5				Verify stacking sequence F6				Cut the material F7				Bag the kit 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	1	2	3	4
Store the kit F9																																			
1	2	3	4																																

**CONSTRUCT THE PART
G**

Select the kit G1				Select the tooling G2				Confirm material orientation G3				Lay-up flat G4				Lay-up contour G5				Inspect part G6				Bag flat part G7				Bag contour part 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	1	2	3	4						
Check bag for leaks G9				Label the bagged part G10				Send to cure G11																																	
1	2	3	4	1	2	3	4	1	2	3	4																														

CURE THE PART
H

Verify serviceability of autoclave H1	Load autoclave racks H2	Connect hoses and thermocouples H3	Check for leaks H4	Enter data H5	Push in the racks H6	Select and run schedule H7	De-bag the part 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
Clean and Frekote mandrel H9							
1 2 3 4							

REWORK THE PART
I

Assess the damage I1	Initiate repair plan I2	Remove damaged composite I3	Remove damaged structures I4	Perform scarf sanding I5	Perform step sanding I6	Remove core I7	Fabricate core plug I8
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
Repair to specs I9	Perform wet lay-up I10						
1 2 3 4	1 2 3 4						

PREPARE THE CORE
J

Sand the core J1	Splice the core J2	Pot the core J3	Stabilize the core J4	Carry-out heat forming J5	Cut the core J6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

TRIM
K

Load / unload part into jig or trim tool K1	Drill holes K2	Countersink holes K3	Spot face / counter bore K4	Trim and debur K5	Chamfer edges K6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

SAND AND FILL
L

Prepare the surface L1	Perform water break test L2	Mix compound L3	Apply compound L4
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

PERFORM FINAL ASSEMBLY
M

Fit parts M1	Clamp components M2	Install fasteners M3	Bond and seal M4	Perform continuity test M5	Perform electrical bonding M6	Wet install fasteners M7	Perform self-inspection and acceptance M8
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
Remove fasteners M9	Torque the fasteners M10	Use locking fasteners M11					
1 2 3 4	1 2 3 4	1 2 3 4					

PAINT
N

Mix paint N1	Tape off area N2	Prepare surface for paint N3	Apply primer N4	Apply finish coat N5	Touch-up paint N6	Remove masking tape N7	Protect part integrity N8
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
Buff and polish N9							
1 2 3 4							

WORK SAFELY
O

Maintain clean environment (5S) O1	Follow WHMIS O2	Follow HAZMAT O3	Use personal protective equipment O4	Apply ergonomic principles O5	Follow workplace safety procedures O6
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
PROFESSIONAL
SKILLS
P

Adapt to changes P1				Demonstrate integrity P2				Anticipate problems P3				Respect others F4				Respond to challenges P5				Work with others P6				Think outside the box P7				Demonstrate punctuality P8							
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	1	2	3	4
Display positive attitude P9				Respond to human factors P10				Demonstrate reliability P11				Demonstrate accountability P12				Demonstrate ethical behaviour P13				Learn continuously P14				Work as part of a team P15											
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	1	2	3	4

COMMUNICATE
Q

Share information Q1				Report problem Q2				Report damage Q3				Report hazards Q4				Initiate service difficulty report Q5				Read Q6				Write Q7				Listen Q8							
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	1	2	3	4
Demonstrate appropriate non-verbal communication skills Q9				Communicate in a manner appropriate to audience Q10				Demonstrate negotiation skills Q11																											
1	2	3	4	1	2	3	4	1	2	3	4																								