

A	B	C	D	E	F	G	H	I
1	Problem: Technician							
2		Legend						
3		Decision						
4		Constraint						
5		Cost						
6								
7	Technician	Shift 1 Cost	Shift 2 Cost	Shift 3 Cost	Certified Category 1	Certified Category 2	Certified Category 3	Certified Category 4
8	1	280	200	300	1	1	0	1
9	2	300	150	350	0	1	1	1
10	3	270	280	200	0	0	1	1
11	4	180	100	200	0	0	0	1
12	5	150	180	180	0	0	0	0
13	6	225	225	225	0	1	0	1
14	7	205	205	215	1	1	0	0
15	8	160	300	120	0	1	0	1
16								
17	Technician	Technician Assigned to Shift 1	Technician Assigned to Shift 2	Technician Assigned to Shift 3				
18	1	0	0	0				
19	2	0	0	0				
20	3	0	0	0				
21	4	0	0	0				
22	5	0	0	0				
23	6	1	1	1				
24	7	0	1	0				
25	8	0	0	0				
26								
27								
28		Constraint Non Negative Values, Decision Variables (binary) >= 0						
29								
30	Constraints							
31		Shift 1	Shift 2	Shift 3				
32	Certified Category 1	=SUMPRODUCT(B13:B20,F3:F10)	=SUMPRODUCT(B31:B320,G31:G310)	=SUMPRODUCT(B31:B320,H31:H310)				
33	Certified Category 2	=SUMPRODUCT(B13:B20,G31:G310)	=SUMPRODUCT(B31:B320,I31:I310)	=SUMPRODUCT(B31:B320,J31:J310)				
34	Certified Category 3	=SUMPRODUCT(B13:B20,H31:H310)	=SUMPRODUCT(B31:B320,K31:K310)	=SUMPRODUCT(B31:B320,L31:L310)				
35	Certified Category 4	=SUMPRODUCT(B13:B20,I31:I310)	=SUMPRODUCT(B31:B320,M31:M310)	=SUMPRODUCT(B31:B320,N31:N310)				
36	Technician 1 Cost	=SUMPRODUCT(B13:B10,B11:B20)						
37	Technician 2 Cost							
38	Technician 3 Cost							
39	Total Cost	=SUM(B30:B31)						