



COMPETENCE MATRIX

B : Basic
A : Advanced
E : Expert

COMPETENCES		ELSE Automation AG		Babics Zoltan		Berger Raif		Beatsch Patrick		Broncel Arnaud		Dietrich Anton		Ehret Ralph		Freund Laurent		Groetz Olivier		Heger Philipp		Klein Thierry		Megel Lionel		Muller Nicolas		Nuttens Thierry		Primus Leandre		Probst Pascal		Rey Franck		Schueller Christophe		Verguit Patrick		Von Bueren Urs							
		B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E	B	A	E				
Languages	German	3	10	5		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
	English	6	12	1	X			X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
	French	4	1	13	X			X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
	Italian	0	0	0																																											
	Spanish	1	0	0																																											
	Dutch	1	0	1																																											
	Hungarian	0	0	1			X																																								
	Chinese	1	0	0	X																																										
	Consulting & Advice	Feasibility studies	0	10	0		X		X							X					X		X				X		X											X		X					
Evaluation of control systems		0	9	1		X		X							X					X		X				X		X											X		X						
Automation concepts		2	6	5		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
Migration	ABB Control Systems	3	5	6		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
	Siemens Control Systems	2	2	0	X			X							X																																
	Concept Design	0	2	8		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
Software Engineering	IT - MES	0	2	2						X																																					
	Active X Development in VB	1	0	3						X																																					
	IEC 61131-3	2	9	6		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
Hardware Engineering	Basic Engineering	0	2	8		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
	Team coaching	1	2	6	X			X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					
Project Management		1	6	1				X							X					X		X																									
Validation	GAMP 5	3	1	2	X			X																																							
	21-CFR, Part 11 compliance	1	4	2	X			X							X																																
	SOP development	1	3	1				X							X																																
	Telelogic Doors	0	1	0																																											
Training	ABB System 800xA	1	0	4		X				X																																					
	ABB Master / Advant OCS	1	1	2	X					X																																					
	Emerson Delta V	0	0	1																																											
IT Maintenance		0	1	3																																											
Security Engineering		0	2	0											X																																
Measurement and control	Control loop tuning	4	5	2		X		X					X				X		X		X																										
Process Optimization	Increase productivity	2	4	1	X			X																																							
Instrumentation	Field engineering	6	4	1		X		X					X				X		X		X																										
	Calibration	5	2	1		X		X					X				X		X		X																										
Controllers	ABB AC 800M	7	3	4		X				X		X		X		X		X		X		X				X		X																			
	ABB AC 800PEC	0	2	2		X				X																																					
	ABB AC 800F (Freelance 2000)	2	1	0	X																																										
	ABB AC 410/450 - MP 200	2	4	5	X					X				X		X																															
	ABB AC 500	1	1	0	X																																										
	ABB AC 110/160	1	2	5		X				X																																					
	ABB CS 31	2	3	0	X					X																																					
	ABB DP 800	1	0	0	X																																										
	ABB KT 93/94/98	2	4	1	X					X																																					
	Siemens S5	9	1	0	X			X					X		X		X																														
	Siemens S7	8	3	1	X			X					X		X		X																														
	Emerson Delta V	3	0	1																																											
	Mitsubishi Melsec	1	1	0	X																																										
	Modicon	1	1	0										X																																	
	Roche PCR-1/2	3	3	2						X																																					
	SattCon	2	0	0				X		X																																					
	Schneider	1	0	0																																											
	Telemecanique	4	1	0	X																																										
	Foxboro I/A	1	1	0											X																																
	Allen Bradley	1	0	0	X																																										
	HIMA	1	0	0																																											
Wago	4	0	0	X										X																																	

PRODUCT KNOW HOW

