

APPENDIX D
Test Specification for Final Master CNC Specialist Certification Test

A		Computer Numerical Control (CNC) Basics	# Items
	1	Define the role and responsibilities of a CNC programmer and operator	8
	2	Define principles of Cartesian Coordinate System and Reference Point	6
	3	Define function and purpose of CNC part program	9
B		CNC Control Operations	
	4	Identify CNC Control basics	6
	5	Perform operations on CNC Control	5
	6	Troubleshoot CNC Control	2
C		Tooling for Turning	
	7	Describe proper care in tooling for turning	5
	8	Describe equipment assembly for turning	5
D		Tooling for Machining Centers	
	9	Define proper care of tooling for machining centers	3
	10	Define equipment assembly for machining centers	3
	11	Demonstrate care and use of tool holders	2
	12	Select and apply the appropriate style of tool holder	3
E		High Performance Machining	
	13	Demonstrate knowledge of high performance machining	6
F		CAM	
	14	Demonstrate knowledge of Computer Aided Machining (CAM) System Software	5
	15	Integrate tooling selection with machining application	5
	16	Develop a work piece sequence of operation	3
	17	Select machine tool to be used	4
	18	Perform CAM operation	5
G		Computer Numerical Control (CNC) Mill	
	19	Describe types of and components of CNC milling machines	5
	20	Perform CNC milling calculation	7
	21	Perform CNC mill setup	13
	22	Make part modifications on CNC Mill	6
	23	Perform CNC mill operations	13
	24	Program CNC mill	10
H		Computer Numerical Control (CNC) Lathe	
	25	Perform CNC lathe setup	6
	26	Make part modifications on CNC lathe	4
	27	Perform CNC lathe operations	6
	28	Program CNC lathe	7
	29	Operate 3 axis CNC lathe with live tooling	1
I		Operate RAM-EDM	
	30	Perform setup	4
	31	Operate RAM EDM	3
	32	Program individual burn on RAM-EDM	4
	33	Perform specialty finishes on RAM-EDM	2
	34	Monitor operation of RAM-EDM	1
	35	Measure important parameters when using RAM-EDM	2
J		Operate Wire-EDM	
	36	Operate hole popper on Wire-EDM	2
	37	Program Wire EDM	4
	38	Set up job on Wire-EDM	3
	39	Select appropriate wire for application on Wire EDM	2
	40	Operate Wire EDM	3
	41	Perform routine preventative maintenance on EDM	3
			196