



HEIDENHAIN
海 德 汉

Training Program Of HEIDENHAIN CHINA 2024

ID	Type of Course	Target Group	Duration	Place	Dates
HCNTR01	Basic Training for Conversational	NC Programmer and operator	5		
	1、 Basic knowledge of TNC			Xian	From 08.01.2024 to 12.01.2024
	a. Operating panel and display key define			Beijing	From 04.03.2024 to 08.03.2024
	b. Machine Operating Modes			Dongguan	From 25.03.2024 to 29.03.2024
	c. File Management			Shanghai	From 22.04.2024 to 26.04.2024
	d. MOD Function			Xian	From 27.05.2024 to 31.05.2024
	e. Interrupting machining, Returning			Chengdu	From 03.06.2024 to 07.06.2024
	f. system information			Beijing	From 24.06.2024 to 28.06.2024
	g. Set Ip Address And Program Translate			Dongguan	From 08.07.2024 to 12.07.2024
	2、 Plain language of HEIDENHAIN			Chengdu	From 19.08.2024 to 23.08.2024
	a. Format of program			Shanghai	From 02.09.2024 to 06.09.2024
	b. Contour Description			Beijing	From 14.10.2024 to 18.10.2024
	c. Polar Contour Description			Xian	From 21.10.2024 to 25.10.2024
	d. Cycle for HEIDENHAIN			Shanghai	From 04.11.2024 to 08.11.2024
	e. Programming technology and array definition			Chengdu	From 25.11.2024 to 29.11.2024
	f. SL Cycle			Dongguan	From 23.12.2024 to 27.12.2024
	3、 Expand				
	a. Basic knowledge of Q parameters				
	b. Basic knowledge of tilt plane				
HCNTR02	Advanced Training for Conversatio	NC Programmer and operator	5		
	1、 Programming technology			Shanghai	From 15.07.2024 to 19.07.2024
	a. Polar, point table, LBLfunction, array. bevel profile			Dongguan	From 23.09.2024 to 27.09.2024
	b. FK cycle, SL cycle,			Beijing	From 09.12.2024 to 13.12.2024
	c. Q parameters				
	d. macro program				
	e. Count and date engraving				
	f. Help and Tips				
	g. touch probe cycle				
	2、 Multi axis machining				
	a. Basic Knowledge of Multiple-Axis Machine				
	b. Cycle19				
	c. Plane function				
	d. M128 and TCPM				
	e. CAD-CAM-TNC				
HCNTR03	Electrical Installation, Paramete	OEM	5		
	1. Basic Knowledge of NC Program and operation			Shanghai	From 18.03.2024 to 21.03.2024
	2. Installation and wiring of TNC			Beijing	From 15.07.2024 to 19.07.2024
	3. pin Definition and interface of system drive and power module			Shanghai	From 26.08.2024 to 30.08.2024



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	<ul style="list-style-type: none"> 4. External emergency stop circuit 5. Machine Parameters 6. Servo system debugging and optimization 7. setting of nominal position filter 8. Data transmission and backup 			Shanghai	From 16. 12. 2024 to 20. 12. 2024
HCNTR04	PLC Programming	OEM	5		
	<ul style="list-style-type: none"> 1. Basic Knowledge of NC Program and operation 2. Connector Designation and Layout 3. PLC Software Tools Instruction 4. PLC Program Structure Generate Document and Running 5. Conventions for the Symbolic Operands PLC Module and Operands 6. M function 7. Automatic Tool Changer and Typical Tool Magazine Introduce 8. PLC Programming Practice 			Shanghai	From 26.02.2024 to 01.03.2024
				Beijing	From 12.08.2024 to 16.08.2024
				Shanghai	From 23.09.2024 to 27.09.2024
HCNTR05	Electrical Installation, Parameters / PLC Programming	OEM	5		
	<ul style="list-style-type: none"> 1. Basic Knowledge of NC Program and operation 2. Installation and wiring of TNC 3. External emergency stop circuit 4. Machine Parameters 5. Servo system debugging and optimization 6. PLC Software Tools Instruction 7. PLC Program Structure Generate Document and Running 8. Conventions for the Symbolic Operands PLC Module and Operands 9. Writing and processing of alarm text 			Dongguan	From 22.04.2024 to 26.06.2024
				Dongguan	From 17.06.2024 to 21.06.2024
				Dongguan	From 09.09.2024 to 13.09.2024
				Dongguan	From 02.12.2024 to 06.12.2024
HCNTR06	Service and Diagnosis	Service Engineer	5		
	<ul style="list-style-type: none"> 1. Basic Knowledge of NC Program and operation 2. Data Transfer and Backup 3. Machine Parameters 4. Mounting and Electrical Installation 5. Integrated Oscilloscope 6. Drive fault diagnosis function 7. Error Message 8. PLC Programming 9. Encoder Diagnosis Introduce 			Beijing	From 20.05.2024 to 24.05.2024
				Shanghai	From 24.06.2024 to 28.06.2024
				Dongguan	From 22.07.2024 to 26.07.2024
				Shanghai	From 18.11.2024 to 22.11.2024
HCNTR07	Encoder Product Training	Service Engineer	3		
	<ul style="list-style-type: none"> 1. LC, LB, ERM/ERA, RON/RCN Install, Diagnosis device, Faults and Maintenance 			Beijing	From 12.06.2024 to 14.06.2024



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	2. LC1xx Linear Encoder Install and Practice			Shanghai	From 07.08.2024 to 09.08.2024
	3. LC4xx Linear Encoder Install and Practice			Dongguan	From 28.10.2024 to 30.10.2024
	4. ERM Angle Encoder install, Signal Commissioning and Practice				
	5. LB Linear Encoder Install and Practice				
	6. PWM9, PWT Diagnosis Device Usage				
	7. Practical training of instrument testing application				
	8. ERA Angle Encoder install, Signal Commissioning and Practice				
	9. RON/RCN Angle Encoder install, Signal Commissioning and Practice				
	10. Analysis and solution of common faults of measurein products				
HCNTR08	Customized Training				
By the request, HEIDENHAIN CHINA provide the service for the TNC control at customers on-site training.					

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