

Contents

- 1. Invitation for 2012 International Training Course on Numerical Control Technology
- 2. Training Schedule of 2012 International Training Course on Numerical Control
- 3. Introduction to CNC Technology and Products of HNC
- 4. HNC's International Scientific and Technological Cooperation



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- Sponsored by
- Department of International Cooperation of the Ministry of Science and Technology (MOST) of the Chinese Government
- 15B Fuxing Road, Beijing 100862, P.R. China
- Organized by
- Wuhan Huazhong NC Corporation, Ltd (HCNC)
- East-Lake Development Zone, Wuhan 430223, P.R.China



•**Time**: Sept. 10, 2012 -Sept. 24, 2012

•Venue: Wuhan City, Hubei Province, China

•Deadline for Enrollment: August 1, 2012

•Working language: English



Brief Introduction to the Training Content:

- Brief introduction to the present status of CNC development in China
- Working principles of CNC machine tools and systems
- Operation, programming and maintenance of CNC machine tools
- Multi-axis machining technology



Attention:

There are several basic enrollment rules for the participants given by the organizer, Ministry of Science & Technology of China:

- 1. The participant should have working experience in the mechanical, electrical or automation related industry.
- ^{2.} The participant should come from mechanical, electrical and automation related companies, universities or research institutes.
- 3. A maximum of 6 seats are available for each country.
- 4. The participant should be healthy and with no transmitted disease.



Training fares:

The charges which will be covered by the organizer in Wuhan during the training program are listed below:

- Training course charges
- Accommodation (as arranged) charges
- Food (as arranged)
- Subsidy

Note: The participants shall bear the cost of international traveling expenses on their own.



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We will provide a training program including theoretical knowledge and practical skills.

Some national renowned professors and experts are invited to give lectures on the advanced CNC technology.

Some experienced teachers will give guidance on the subjects of CNC machine tool operation, programming and maintenance etc.



•Date	•Item					
•Sept.12	•Introduction to HNC products and marketing strategy					
•Sept. 13 -Setp. 15	•Operation and programming of machine tools					
•Sept. 16	•One-day sightseeing					
•Sept. 17	•CNC controller & electrical control of CNC machine tools					
•Sept. 18	•Feeding servo system & frequency converter of the spindle					
•Sept. 19	•PLC & machine tool precision check					
•Sept. 20 to Sept. 22	•Visiting and investigations					
•Sept. 23	•Five-axis machining					
G + 24	•Summary					
•Sept. 24	•Completion					



Main Teaching Equipments and Types

No.	CNC Device	Туре	Quantity	Specification & Main Usage	Unit price (RMB)
1	vertical machining center	XH714	10	3-axis linkage, spindle: 60-8000 rpm; used for machining center practical training	250,000
2	5-axis vertical machining center	XHK713	2	5-axis linkage, spindle 20000 rpm, used for practical training for 5-axis machining	500,000
3	vertical machining center	XHK715	2	4-axis linkage, spindle: 60-8000 rpm	300,000
4	CNC lathe	CK6136	5	Spindle: 3.7 KW, 180-2500 rpm, used for practical training for CNC lathe	80,000
5	CNC Lathe	CK6140	5	Spindle: 5.5 KW, 100-2000 rpm: used for practical training for CNC lathe	100,000
6	CNC milling machine	XK714	5	3-axis linkage, spindle: 7.5 KW, 60-8000 rpm: used for practical training for CNC milling machine	200,000

Main Teaching Equipments and Types

No.	CNC Device	Туре	Quantity	Specification & Main Usage	Unit price (RMB)
7	CNC milling machine	XK713	5	3-axis linkage, spindle: 5.5 KW, 60-3000 rpm: used for practical training for CNC milling machine	180,000
8	CNC Experimental bench	HED-21	5	2-axis linkage, spindle: 0.55 KW, 100-1390 rpm; Used for assembly, commissioning and maintenance of CNC system	100,000
9	Integrated experimental device of CNC lathe	HED-ST	5	2-axis linkage, spindle: 0.37KW,100-2800rpm; Used for assembly, commissioning and maintenance of CNC system	60,000
10	Integrated experimental device of CNC milling machine	HED- SM	5	2-axis linkage, spindle: 0.4KW,3000-24000rpm;	80,000

CNC Training Center of HNC Covering an Area of 2000 Square Meters





CNC Training of Lathe





CNC Training of Milling Machine





CNC Training of Machining Center





Computer Center



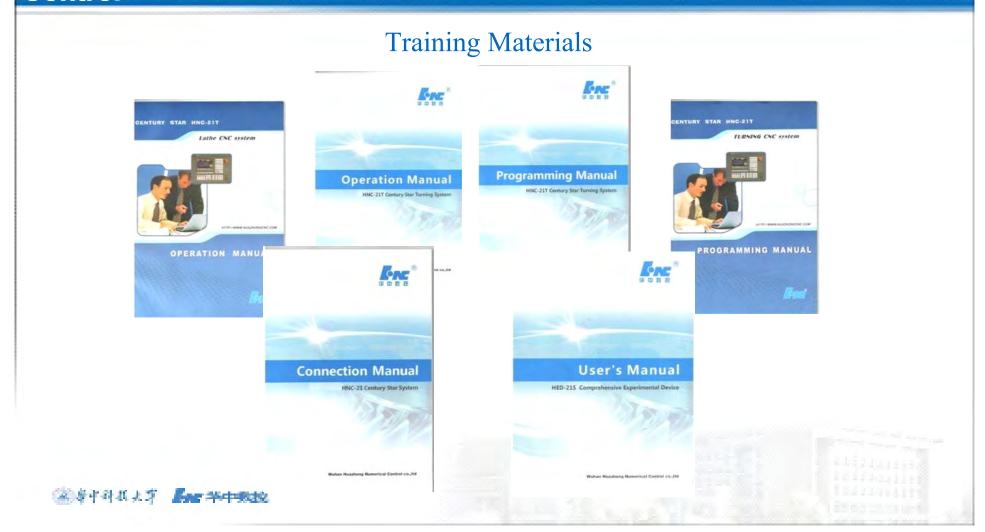




Practice Room for Electrical Control and maintenance



Training Room (with Capacity of 80 People)







Reception Center in HUST

Accommodation Room





Food Service Center

Teaching Staff

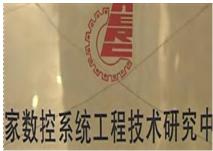
NO.	Name	Sex	Age	Company	Position	Professional title	First degree	Final degree
1	Chen Jihong	Male	46	HNC	President	Professor	Bachelor degree	Doctor
2	Xiang Hua	Male	41	HNC	General manager	Senior engineer	Bachelor degree	Doctor
3	Zheng Xiaonian	Male	46	HNC	Deputy general manager	Professor	Bachelor degree	Master degree
4	Xiong Qingping	Male	46	HNC	Deputy general manager	Professor	Bachelor degree	Master degree
5	Xu Jianchun	Male	37	HNC	Minister	Senior engineer	Bachelor degree	Master degree
6	Hu Tao	Male	46	HNC	Minister	Senior engineer	Bachelor degree	Bachelor degree
7	Sun Hailiang	Male	33	HNC	Minister	Senior engineer	Bachelor degree	Bachelor degree
8	Tang Xiaoqi	Male	54	HUST	Dean	Professor	Bachelor degree	Doctor degree
9	Peng Fangyu	Male	38	HUST	Deputy dean	Professor	Bachelor degree	Doctor degree

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- > 2008: First Series of National Independent Innovation Enterprise; Excellent Innovative Enterprise of China Machine Tool Industry; the Executive Member National CNC System Standards Committee.
- > 2009: Excellent Enterprise of National Machine Tool Industry; the First Grade Prize of Science and Technology Progress of Hubei province and Ministry of Education.
- > 2011: On January 13, HNC issued shares on the GEM market at Shenzheng stock exchange. It is the first listed domestic CNC enterprise.

※每中科技大字 ■ 本中教授

HNC has established research and production base and achieved an annual production of 10000 sets of CNC systems. And it has set up production lines for various CNC products.





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HNC has established an advanced quality inspection center where devices are provided for the tests of electromagnetic compatibility, electrical surge, vibration and environments.





CNC Products of HNC



HNC has achieved the annual production of 10000 sets of CNC systems that takes up 30% of domestic CNC systems.

It provides a wide range of CNC systems, and its products are well received by users.

HNC has comprehensive system matching capabilities and it is a leading manufacturer for CNC systems.





Motor drives developed by HNC



2. CNC Products of HNC

Series 180U motor drives



HSV-180U-25A/50A/75A



HSV-180U-100A/150A











ON, January, 13, 2011, HNC became a listed company.



HNC systems are used by more than 60 domestic famous machine tool enterprises.





























全国职业教育师资 专业技能培训示范单位



Awards















Awards and Certificates







科学技术部 国务院国资委 中华全国总工会 二〇〇八年七月

※每中科技大学 **For** 华中歌校





Series HNC-8 bus-based CNC systems









HNC-808

HNC-818

HNC-848

Supporting a maximum of 10 channels

Each channel supports a maximum of 9 coordinate axes and a maximum of 4 spindles.





DLH-20 high-speed turning center of Dalian Machine Tool CO., LTD that uses HNC-8 bus-based system and dual-axis closed-loop raster ruler. It features high precision, high rigidity, and the cutting feed rate is 60 m per minute. The comprehensive performance of the machine has reached the international advanced level.





In November, 2011, Series ADG highspeed CNC lathe and turning center of Anyang Xisheng Machine Tool CO.,Ltd. that uses HNC-8 systems went into operation in the auto parts manufacturing industry.



5-axis high-speed Gantry milling machine, with the maximum speed of 80 m/m, dual-axis synchronization control







HNC has established more than 300 CNC technical practical centers, and provided thousands of CNC machines for more than 10 million CNC technical personnel.

Year	2004	2005	2006	2007	2008	2009	2010	Total
Number of practice center	50	392	321	313	320	320	629	2345
Number of CNC practice center	26	100	49	51	49	39	58	372
Proportion of CNC practice center	52.00%	25.51%	15.26 %	16.29%	15.31%	12.2%	9.22%	15.87%
Total price of CNC equipments (RMB)	1.116 billion	3.296 billion	1.42 billion	1.46 billion	1.34 billion	1.57 billion	2.13 billion	12.33 billion



CNC technical practice center of Lingbo

Yinzhou Vocational and Technical Center



CNC technical practice center of
Wuxi Vocational and Technical Center



CNC technical practice center of Baotou Vocational and Technical College



CNC technical practice center of Tianjin
Electromechanical Technical School





CNC technical practice center
of Changzhou Vocational College



CNC technical practice center of
Chongqing Lixing Vocational
Education Center







2006

2008

Undertaking 2006, 2008,

2010 CNC skills competition

2010







2008

•2009

Undertaking 2008, 2009,

2010 CNC skills competition







•2008

•2009

•2010

Undertaking 2008, 2009, 2010 CNC skills competition

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In 2004 and 2005, HNC organized two terms of international CNC training courses to promote the cooperation and exchange of CNC technology between countries all over the

world.

HNC has cooperated with

Laser research institute in

Pakistan and Hanoi

University of Science.











In 2009, worked together with Jiujiang Vocational college, HNC undertook vocational Education Seminar for African countries to study teaching methods and training teacher for vocational colleges in Africa.





In 2011, under the support of Chinese government, HNC worked together with Dalian Machine Tool Group Co., Ltd., and reached a cooperation agreement with Kenya government. In the agreement it specifies that HNC provides hundreds of CNC equipments for Kenya and establishes dozens of CNC training centers to develop skilled personnel



for Kenya manufacturing industry and vocational colleges.



exported to Columbia

CJK6032 CNC lathe exported to Columbia

· 每中科技大字 · 四十天大學

HNC established more than 20 CNC training centers in Colombia.





- Since 2009, HNC has actively expanded overseas business in Southeast Asia and other developing countries, and achieved good results. In cooperative with Luoyang Bearing Research Institute, HNC signed a cooperation agreement with PMK Precision Machinery Cooperation of India to provide dozens of CNC machines for India.
- In 2011, under the support of Chinese government, HNC worked together with Dalian Machine Tool Group Co., Ltd., and reached a cooperation agreement with Kenya government. In the agreement it specifies that HNC provides hundreds of CNC equipments for Kenya and establishes dozens of CNC training centers to develop skilled personnel for Kenya manufacturing industry and vocational colleges.







Exploring global CNC market



--- taking part in Chicago machine tool exhibition





Exploring global CNC market--- taking part in Chicago machine tool exhibition

Thank you!

