



# **Internet-based E-learning for Statistical Training in China**

# 1. Background Information

1.1 Main composition of the personnel in statistics in China

1.2 Professional knowledge requirements to official statisticians

1.3 Beneficiaries of e-learning for statistical training

# 1.1 Main composition of the personnel in statistics in China

- ❖ 400,000 people in China's Official Statistical system
  - 100,000 from statistical offices at national, provincial, municipal, county and township level
  - 100,000 from ministries
  - 100,000 from village offices directly under the administration of official statistical offices
  - 100,000 employed assistant enumerators
- ❖ Millions of statistical practitioners

## **1.2 Professional knowledge requirements to official statisticians**

- ❖ **2-4 basic knowledge**
- ❖ **Some professional statistical knowledge**

# National level

- ❖ NBS Staff : regular face-to-face lectures (around 20 lectures a year)

Topics: Four Major Projects (business register, data processing, on-line direct reporting, integrated questionnaire for enterprises), macro-economic situation, world economic outlook, etc.

- ❖ Statistician of ministries: independently organized and implemented by the ministries in accordance with the national statistical methods and regulations.

# Provincial Level

- ❖ Statistical basic knowledge
- ❖ Computer technology (statistical analysis software)
- ❖ Statistical analysis report
- ❖ National Accounts
- ❖ Sample survey
- ❖ Macro-economic situation
- ❖ economics

# Municipal level

- ❖ Excel
- ❖ Brief statistical analysis
- ❖ National accounts
- ❖ Professional knowledge: industrial statistics, price statistics, etc

# County & Township Level

- ❖ Excel for brief statistical analysis
- ❖ Preliminary statistical analysis capabilities
- ❖ Basic knowledge
- ❖ Professional knowledge: industrial statistics, price statistics, etc



# Beneficiaries

## Website of Online Learning Center:

- ✧ Established in 2008 by NBS
- ✧ Targeted to official statisticians (national, provincial, county & township), totaling 10,000
- ✧ 387 courseware available (around 700 class hours)
- ✧ with 125,779 clicks
- ✧ 8416 persons have attended the online study and gained credits
- ✧ By April 1st 2013, there have been 1100 NBS staff registered

国家统计局在线学习中心  
http://home.stats.gov.cn/OL

提高人员素质 提升业务能力

2013年6月8日 星期六

2012年度重点推荐

经济类

- 县域经济发展中的政府行为——以云南省大关县为例(上)(学时:4)
- 县域经济发展中的政府行为——以云南省大关县为例(中)(学时:4)
- 县域经济发展中的政府行为——以云南省大关县为例(下)(学时:4)
- 中国2050年低碳发展之路:能源需求与碳排放情景分析(学时:4)
- 经济及产业转型的技术问题及能源系统(上)(学时:4)
- 经济及产业转型的技术问题及能源系统(下)(学时:4)
- 产业集群和区域经济发展(上)(学时:4)
- 产业集群和区域经济发展(中)(学时:4)
- 产业集群和区域经济发展(下)(学时:4)
- 国际货币体系改革与人民币国际化战略选择(上)(学时:4)
- 国际货币体系改革与人民币国际化战略选择(下)(学时:4)

综合类

- 盛来运:县域经济发展的科学观(2009-1-21)

国家行政学院网络精品课程

能力 沟通协调能力 公共服务能力 健全应急体制机制,提高处置公共事件能力 突发公共事件

资源分类

- 领导干部研修
- 刘恒:贯彻执行处分规定,严肃查处统计违法
- 许宪春:中国GDP核算与部门统计(2010-2-8)
- 姚景源:中国宏观经济形势与经济政策(2010-2-8)
- 程子林:深入学习贯彻《统计法》,努力提高
- 盛来运:县域经济发展的科学观(2009-1-21)

专业技能培训

- 孙屹:发现数据之美——从大数据到可视化(2012-9-7)
- 张卓:动态数据分析和报表制作(2011-11-28)
- 袁伟:公文处理常见问题及分析(2011-7-11)
- 杨洁:公文处理实务(2011-7-11)
- 卢量德:Outlook 2003和Out(2010-7-27)

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## **2. Status of the delivery and use of e-learning courses in China**

# 2.1 Contents & Topics

- ❖ Three split screen courseware
- ❖ Regular face-to-face lectures by NBS
- ❖ Lectures by senior experts
- ❖ Lectures for professional training
- ❖ Flash courseware co-developed and shared with other institutions
- ❖ Basic Statistics

The screenshot shows a web-based lecture interface. At the top, there is a red banner with the text '国家统计局在线学习中心 网上校园' (National Bureau of Statistics Online Learning Center Online Campus) and '当前位置: 首页 >> 网上校园' (Current location: Home >> Online Campus). Below the banner, the text '许宪春: 中国GDP核算与部门统计' (Xu Jianchun: China GDP Accounting and Departmental Statistics) is displayed. A '登录课堂' (Log in to class) button is visible. The main content area features a green header with the title '中国GDP核算与部门统计' and the name '许宪春'. A video player shows a lecture by Xu Jianchun, with a '已暂停' (Paused) status and a '00:02' timer. The video player controls include play, stop, and volume buttons. Below the video player, the text '许宪春' and '2009年11月24日' (November 24, 2009) is displayed. At the bottom, there is a navigation bar with the text '国家统计局统计教育中心 2009.11.24' and buttons for '课件介绍' (Courseware introduction), '教师介绍' (Teacher introduction), '在线测验' (Online test), '在线讨论' (Online discussion), '资料下载' (Download materials), '帮助' (Help), '音频' (Audio), and '退出' (Exit).

# SIAP course

- ❖ July to December 2012, ten NBS staff took the course provided by SIAP on SNA 2008
- ❖ developed by Tokushima University and tutored by faculty of SIAP
- ❖ 6 fields with case study: basic concepts of SNA, macro-economy framework, economy and economic institutions, economic flows and stock, relations and features of the main indicators of SNA, and national accounts

## 2.3 Participants, mode, success percentage and duration

NBS implemented a credit system for its staff.

On-line course serves as a supplement.

The courses are asynchronous, open and voluntary, so we have no statistics on the average number of participants for a course.

Each course normally lasts for 4 class hours and percentage of participants successfully completing the course is 100%.

# SIAP on-line course

- ❖ Well-targeted
- ❖ Interactive (tutorial and Q&A)
- ❖ Quantitative evaluation (3 exercises & 1 final evaluation test)



# Audio-visual techniques and software used

Windows XP and the advanced version

IE explorer

Media Player

No extra plug-in is required

Maximum speed of video transfer is 600kbps

Minimum bandwidth 1M

# 3. Conclusion





## 3.1 Main considerations in deciding to conduct or use e-learning courses

- ❖ Numerous personnel working in statistics, with different educational backgrounds and varied levels
- ❖ Restrains of face-to-face lectures and workshops: time, space and fund
- ❖ NBS is reforming the statistical regulations and methodologies in accordance with the international standard
- ❖ E-learning is effective and has many advantages
- ❖ It has been a necessary and effective supplement to existing face-to-face lectures and workshops & has been an integral part of general training strategy of China's national statistical system.

## 3.2 Lessons learned and constrains

- ❖ Open with more freedom
- ❖ Easy to get access
- ❖ Can be made well-targeted, interactive, effective and with tutorial and quantitative evaluation
- ❖ Although e-learning still has financial and technical requirements, we are confident that it will play a more important role in the future statistical training as the cost gets lower.

## 3.3 Plans for the future: more channels to be explored

- ❖ NBS attaches great importance to internet-based e-learning
- ❖ Courseware Resources from international statistical workshops collaborated with UNSD and independently organized by CISTC
- ❖ Opportunities provided by SIAP

# What we need to do

- ❖ **Learn from SIAP and other statistical training institutions**
- ❖ **Work closely toward the target of building national statistical capacity**
- ❖ **Share experiences and teaching resources**



**Thank You All!**

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