e-Learning. Web-based training of statisticians.

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Federal State
Statistics Service

Structure of Rosstat statistical system

Federal level

* Around 600 employees in Head office situated in Moscow

Regional level

* 82 offices all over the country

Staff employed in the Federal State Statistics Service enumerates to 18 000 people

Subordinated and partner institutions

* Main Interregional Center for processing an dissemination of statistical information
* Scientific Research Institute of Statistics
* Information and Publishing Center
* Research and Development Institute "StatInform"

Professional education

Professional training, career development and internship of employees is carried out throughout the whole period of work on the basis of secondary or higher education.

The type, form and duration of supplementary professional education are set by Rosstat. These characteristics depend on groups and categories of employee's position.

Individual professional development plans form the basis of education plan.
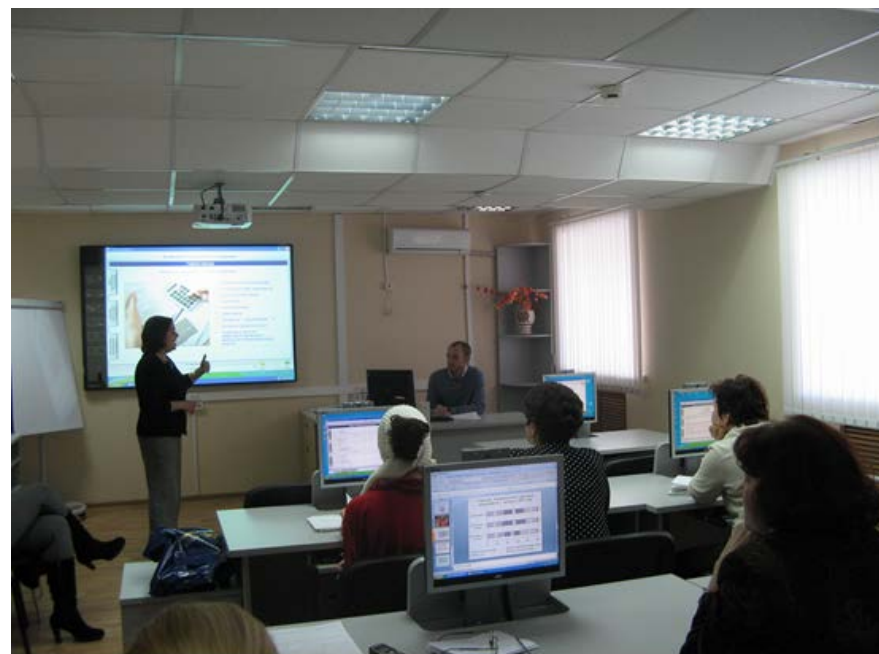
e-Learning in Rosstat

e - Learning and using distance learning techniques have become the most common type of supplementary professional training of Rosstat employees.

Rosstat information and telecommunications networks have been regularly updated and improved, which allows prompt on-line and off-line distance interaction of trainees and teachers (tutors, supervisors, project managers). Now we have a strengthened and improved infrastructure of education.
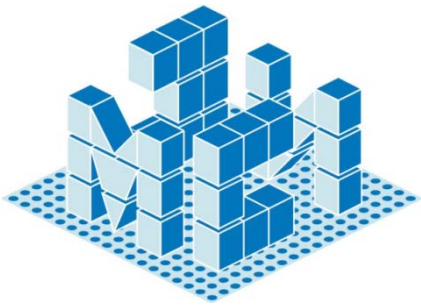
Network of classrooms for training programs

* 3 federal and 80 regional classrooms
* In 2012 around 3000 employees were trained
* Among 16 educational programs are:
  * Improving questionnaires for statistical surveys
  * Quality control in sample surveys
  * Administrative data use
  * Methodological toolkit for identification of disparity indicators of population level of income according to OECD standards
  * SNA-2008
  * Using IBM SPSS Statistics software for analysis of survey on employment
  * Unified Interagency Information and Statistics System in Russia

Combination of asynchronous and synchronous e-learning courses

* Experience of training programs has shown feasibility of distance education techniques that are based on combination of asynchronous off-line training and synchronous training methodology along with mandatory consultation with teacher.

* Training might be represented in the form of chat – (all participants have simultaneous access to the chat), and in the form of web-training (distance learning, videoconferences, workshops, business games, labs, practicum and other forms).

e-Learning partners in Russia

Moscow State University
of Economics, Statistics
and Informatics

The Higher School of Economics

Russian Presidential Academy
of National Economy
and Public Administration

International cooperation in e-Learning

Leading universities of economics and authorized training centers as partners in e-learning programs. Most of them are members of European Association of Distance Teaching Universities (EADTU), European Distance and E Learning Network (EDEN), European University Association (EUA), European Association for International Education (EAIE).

8 training programs were successfully accomplished. 154 people out of 852 studied the topics using e-learning methods.

* Microsoft applications for LAN administration of corporate web-resources. Effective performance of information infrastructure.
* Seasonal leveling of social and economic indicators of official statistics using Demetra software
* Software tools to increase effectiveness of staff career development and training
* Registration of consumer prices on goods
* Survey on retail markets and individual entrepreneurs in retail trade
* Production and dissemination of official statistics at regional level
* Methodology for monthly and quarterly calculations of population incomes
* Expanded possibilities of DevInfo database system

e-Learning challenges

* Lack of constant contact between the teacher and student
* High probability of accidental errors
* Difficult to apply differentiated approach for assessment of training effectiveness

The input and output knowledge testing, questionnaires for teachers and students, knowledge lifecycle testing are used to increase the effectiveness of e-Learning programs.

E-learning training courses: 2013 plans

* Automatic system for economic description of statistical works
* Integrated web-portal of Rosstat
* Using Microsoft Office applications
* Accounting in public sector. State budget of the Russian Federation
* Methodological approaches to identify institutional units by sector of economy in Statistical register according to SNA-2008
* SNA-2008 framework
* Methods of statistical surveys for number, composition, wages and salaries, additional professional education in public sector. Methodological guidelines, their implementation, statistical survey.
* Income indicators by components (including informal economy adjustments)
* Methodology for assessment of investments in fixed capital
* Methodology and best practices for Industrial Production Index

Prospects of e-Learning

E-learning remains as top priority in terms of additional education and training of Rosstat's staff.

We also move forward and are going to launch the u-learning program which is aimed at teaching of everyone wherever it is possible using the latest technologies and web-applications.

We hope that it will result in proactive way of training statisticians.

Thank you for your attention!

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