Risk Management for Goods Imported into the Customs Territory of the Customs Union

Afonin Peter
GrandPhD, professor, The Head of the Department of Technical Means of Customs Control and Criminalistics, Saint-Petersburg Branch of Russian Customs Academy
Scientific Methods for Promising Applications of Risk Management Systems

Environment (Context)
- Risk areas
- Risk criteria

Risk analysis
- Risk Identification
- Risk analysis
- Risk indication
- Assessment and selection of risk priorities

Risk management
- Planning of risk management methods
- Implementation of risk management methods
- Processing of documentation in the context of risk management

Monitoring
- Quality of risk management
- Assessment of changes and upgrades in the contents of risk management
- Preparation of reports

R&D work “TAMOZHNYA”
- CAS tools for training in the Customs Academy of the Russian Federation
  - Subsystem for training
    - Decision Support habits
  - Subsystem for modeling and simulation
  - Subsystem for applications

R&D work “INSPECTOR”
- Adaptive CAS trainers of computer aided information system for customs
- Simulators of customs operations and procedures

R&D work “SITUATSIA”
- Special Software for Multipurpose Scientific research and Training Center of Federal Customs Service of the Russian Federation
  - Simulation of processes in different sectors of economy
  - Simulation of activities within customs procedures
  - Simulation of customs risks identification
  - Research of risk management in the context of customs operations
  - Risk management versus indexes of external economic activity

Joint Information & Ed of Federal Customs S

Risk Management System
- Knowledge in risk management
- Research in risk management
- Calculations in risk management
- Training in operation of CAS for risk management
- Training in risk management

Risk areas
- Risk criteria

Environment (Context)

Risk analysis

Risk management

Monitoring

R&D work “TAMOZHNYA”

R&D work “INSPECTOR”

R&D work “SITUATSIA”
Use in practice

- Special software of multipurpose scientific research and training center of Federal Customs Service of the Russian Federation
- Integrated training system of customs authority (ITSCA)
- Classrooms in customs posts, customs offices
- Simulators
- Adaptive CAS trainers

Divisions of the Customs academy of the Russian Federation
- Integrated training system
- Integrated training system Saint Petersburg
- Integrated training system Rostov
- Integrated training system Vladivostok
Tailoring of training in the Customs Academy of the Russian Federation

Improving theoretical knowledge and practical efficiency of the customs officers at their stations

Training in law enforcement institute

Simulators
Simulation of realistic events of customs activities to train actions and improve expertise of different specialists. The following is supported:
- Generating scenarios for customs procedures and operations;
- Game depending on the user’s actions (process partition)

Adaptive CAS trainers
Computer aided trainers for customization of training with flexible changes in complexity depending on the quality of actions of a trainee.
The following is supported:
- Generating interfaces for software of joint computer aided information system or remote access to running applications (adaptive trainers);
- Generating scenarios for simulation of computer aided system functionality depending on the trainee’s actions

Integrated Training System of Customs Authority

Entrance Tests
Training Customization
Unauthorized access control
Actions of trainees are stored in database
Functionality of Simulator for the Specialist Training

**Modes of Operation**

- **Training Mode**
- **Test Mode**
- **Synthetic Training Mode**

**Didactics of Simulator Structure**

- Selection of simulator and activation of operation modes
- Exercise in test mode
- Exercise in training mode
- Exercise in synthetic training mode
Functionality of Adaptive CAS Trainer for Specialist Training

**Modes of operation**
- Simulation
- Laboratory work (group session)
- Full scale exercise

**Didactics of adaptive trainer**
- Selection of mode and variant of action to be exercised
- System controlled exercise
- Individual exercise
- Test exercise
Automated control over training system of Federal Customs Service to improve efficiency of higher, postgraduate and continuous professional education.

Support software of R&D and information analytics executed in the Federal Customs Service for identifying the most effective tools for their immediate implementation by the customs authority.

Support software for operations training of customs officers in the Russian Federation. Computer aided tools for professional training of customs officers from CIS and other countries.

**Modules of special software**

**Organizational module**
- Checking quality of higher and postgraduate professional training in the context of syllabus and systems, methodological and technological support, making solid proposals to improve training of the Federal Customs Service specialists.
- Virtual educational environment.
- Audit of users’ activity.

**Operations training module**
- Software and information support for active exercises with:
  - Authorities of the Federal Customs Service;
  - Customs officers from CIS and other countries;
  - Officers from ministries and agencies of the Government of the Russian Federation participating in state governing of customs activities.
- Data base of training process.

**Analytical module**
- Identifying the most effective tools for implementation of missions of customs authorities in compliance with international standards and law of the Russian Federation.
- Mathematical and economics modeling of processes in the Russian Economy.
- Modelling of different customs organizations, objects and customs processes.
- Implementation of analytical modeling technologies.
- Technological support for visualization of Federal Customs Service object performance.
- Integration with information systems of the Federal Customs Service.
- Electronic work schedule.
- Statement of work, check of task execution.
- Control over powers of business process participants.
Organizational Module of Special Software of Multipurpose Scientific Research and Training Center
Operations Training Module of Special Software of Multipurpose Scientific Research and Training Center
Analytical Module of Special Software of Multipurpose Scientific Research and Training Center
Expected Result of Using ITSCA

Motivation-target parameters:

• Students are more motivated for effective studies using PC and simulators;
• Favorable attitude for specialized customs training increases by 90-100%;
• Pursuit of self study in customs (economy) increases;
• Detailed skills and habits within syllabus;
• Class satisfaction improves.

Procedural parameters:

• Grades in specialized customs studies increase by 30% because of higher volume of practical exercise and new opportunities to acquire specific skills and habits;
• Customs oriented interests of students are improved in the context of specialized subjects;
• Pedagogical methods, tools and techniques comply with targets, missions and specifics of students training in special subjects.

Activity parameters:

• Vocational and cognitive skills of students developed in the training process with the use of Simulators and adaptive CAS trainers;
• Psychological resistance during actions in situations close to reality increase by 30%;
• Mastering of specific customs specialties increase by 40 %;
• Attitude for further work with the Federal Customs Service is formed

Effective parameters:

• Level of specialized customs training increase by 30-40%;
• Time for mastering specific activity reduced by 20-25 %;
• Economic effect of training sessions with the use of Simulators and adaptive CAS trainers rises;
• Acquired skills and habits become solid.
Expected result of using Special Software in Multipurpose Scientific Research and Training Center

**Specialist training**

- Creating conditions for high efficiency training of customs officers from CIS and other countries based on integrated use of state-of-the-art training methods in the structure of joint information system of the Customs Academy of the Federal Customs Service of the Russian Federation.

- Continuous training of professors, instructors and administrators of customs institutes, higher officers and authorities of Customs based on modern operations and deep data processing, situational decision making implemented in joint information system of the Russian Customs Academy.

- Proper decisions on set-up and control over educational system of the Federal Customs Service to improve methodology of training of different categories of students, materiel assets and their implementation in practical activity of the Customs academy of the Federal Customs Service.

- Creating training sites for customs specialists and development of their skills to generate models, perform dynamic study of their behavior and take proper decisions, see trends of large scale processes in politics and economics.

- Increase by 15-20% in quality of execution of major didactic operations during set up and in the course of training process assessed with the following parameters:

**Analytical training**

- Reducing chances of improper decisions in all spheres of customs managements by removing differences between human intellect and complexity of processing of huge volumes of data, avoiding errors in responsible decision making.

- Improving inter agency cooperation in state management of foreign trade and specifying avenues for its optimization.

- Optimization of tariffs and duties in foreign trade by quantitative analysis, considering instability of external environment.

- Improving responsiveness and scale of customs objects monitoring and administration of complex processes of customs activity.

- Creating conditions for validation of technologies and tools of intellectual data processing to improve software and mathematical support in multipurpose scientific research and training center of the Federal Customs Service.