

Innovative Business Safety Specialists Training According to Newly Developed Doctrine of Engineering Education in Russia

*Irkutsk State Technical University
A.P. Sterkhov*

The article deals with the problems of safety insurance of innovative business in compliance with the new Doctrine of Engineering Education in Russia. The necessity of systematic knowledge in technical science, economy and law is underlined. Master's degree program in "Safety Management in Innovative Business" is considered to be the most preferable. The article highlights the basic problems and objectives in training the Master's degree students in "Safety Management in Innovative Business".

Key words: *integrated safety, innovative business, safety specialist, problems, main objectives.*



A.P. Sterkhov

The processes which our country confronted at the turn of the XXIst century, i.e. the change of ownership structure and economic system, have resulted in severe shortage of qualified business safety specialists. It basically concerns innovative business.

The shortage of qualified safety specialists is primarily explained by scientific and methodological inadequacy of business safety and security, including a great number of problems in legal, economic, informational and engineering training of safety specialists.

The analysis of the current situation has revealed that the present state-legal mechanisms and traditional safety methods of innovative business are

rather inefficient and even unacceptable within the business activity framework.

Inadequate legislative and regulatory framework for business security, absence of required legislation amendments, ineffective mechanisms for coordinating the interests of State and entrepreneurs, inefficient business risk insurance policy and evident shortage of qualified legal consultants are among the reasons for insufficient business security. As a rule, rather low level of knowledge of safety specialists, shortage of highly-qualified personnel capable to guarantee company security, absence of experience background and required literature focused on safety specialist training also lead to ineffective company security policy.

Based on the relevant publications, it may be inferred that complex business security policy is still being developed [1]. In most cases, the authors consider only definite aspects of business security policy in terms of legal framework or technical, informational, economic and environmental issues.

Besides, a qualified safety specialist must have broad knowledge and skills in economics, legal science and engineering [3]. He/she must demonstrate knowledge not only in production management but also in peculiarities of human relations, be familiar with private law issues as well as with information-analytical work including the aspects of social engineering.

As a safety specialist must possess skills and attributes of an engineer, manager, economist and lawyer, it is possible to pursue one of the above-mentioned degree programs. However, engineering education is considered to be more preferable in a case of innovative business security. In this respect, Master's degree program "Security Management of Innovative Business" designed for engineering manager training is more appropriate. It is proved by the fact that rapidly changing safety technologies require more qualified managers equipped with deep knowledge of science and engineering. On the other hand, security insurance of business and economic system in general is primarily defined by the implementation of innovation processes in companies and enterprises. The share of goods and equipment produced by implementing innovative technologies and solutions ranges from 70 to 85 % of gross domestic product growth in the developed countries [2].

Another alternative for safety specialist training is Master's degree program "Business Security Management". It can be explained by the fact that almost all decisions concerning legal, informational, economic, environmental, technical and engineering aspects of security insurance can be estimated in terms of money.

The most crucial problems in training safety specialist for innovative business are as follows:

- absence of state educational standards in safety specialist training approved by the Ministry of Science and Education;
- absence of job position and job description for innovative business safety specialists in the Russian National Classification of Occupations of Employees, Positions of Civil Servants and Wage Category which is recommended to be referred to in a case of different ownership patterns. This Russian National Classification of Occupations of Employees, Positions of Civil Servants and Wage Category is an integral part of the Unified System of Information Classification and Codification of the Russian Federation and it has been developed within the State program for the transition of the Russian Federation to the international system of accounting and statistics in accordance with the requirements for the development of the market economy;
- absence of scientifically grounded recommendations and reasons for adding business safety specialist position into the company structure;
- methodological inadequacy of innovative business safety and security;
- problems in regulatory support of innovative business security.

To solve the above-mentioned problems, first of all, it is required to fulfill the following tasks:

- to develop methodology for complex security insurance of innovative business;
- to develop the concept of business security insurance;

- to establish appropriate policy of business complex security insurance;
- to add position of safety specialist for innovative business to the Safety Specialists and Workforce Qualification Reference Book;
- to develop and certify Bachelor's and Master's Degree requirements in innovative business security;
- to incorporate appropriate degree programs into the State Educational Standard;
- to develop teaching materials in order to provide high-quality training of safety specialists for innovative business.

The draft of federal entrepreneurship protection law as a basic nominative legal act would solve a great number of relevant problems and contribute to security insurance of innovative business. It is essential to formulate principles of business security insurance, develop basic methods for entrepreneurship protection and business security within the law. In addition, business security must be based not on the state law enforcement, but on economic mechanisms.

In order to handle the problems in business security, it is required to establish a complex system of security control based on the joint efforts of the government and its regulatory agencies as well as business entities themselves. To coordinate this kind of work and

cooperation, business security councils of different levels can be arranged: business security council of the Government of the Russian Federation, regional business security council and etc.

A well-structured services marketing must be established within the business security framework. It should be noted that security methods which are widely applied by entrepreneurs are certainly very important but they can hardly be used alone. Therefore, safety and security "market" must also embrace a wide range of guaranties which are concerned with relation stability and support of entrepreneurship development. Each of these guaranties requires further elaboration [3]. The application of the discussed methods will help to define the scope of business contribution to its effective management.

From the above reasoning it is obvious that it would be more preferable to train safety specialists for innovative business at National Research Technical Universities. On the one hand, Russian Research Universities are proved to be the centers of fundamental science. On the other hand, these universities produce highly skilled personnel appropriate for innovative development.

In this case, the quality of safety specialist training will have direct influence not only on the future of business security but also on the possibility of creating favorable environment for innovative development of the entire entrepreneurship in our country.

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