

Journal of Educational Theory and Management

https://ojs.s-p.sg/index.php/jetm

Electronic Commerce Security and Risk Management: An Important Part of College Curriculum

Yongchang Cai

Xi'an Institute of Translation, Xi'an, Shaanxi, 710105, China

ARTICLE INFO

Article history

Received: 26 January 2024 Revised: 2 February 2024 Accepted: 9 April 2024

Published Online: 16 April 2024

Keywords:

Electronic commerce

Secure

Risk management College curriculum

ABSTRACT

With the rapid expansion of e-commerce, its security and risk management problems become increasingly prominent. In the current business environment, the ability to understand and apply e-commerce security and risk management has become an important criterion to measure a good person. Therefore, the importance of e-commerce security and risk management courses in college education is self-evident. This course can not only help students master the basic knowledge of e-commerce, but also enable them to understand how to deal with various risks in practical work and ensure the safe operation of e-commerce. At the same time, through the study of e-commerce security and risk management, students can better understand the operation mode and law of e-commerce, and lay a solid foundation for their future career. In general, e-commerce security and risk management occupy an important position in the curriculum of colleges and universities, and play a crucial role in cultivating e-commerce professionals with practical operation ability and innovative thinking.

1. Introduction

Today's business environment is inseparable from e-commerce, and the security and risk management of e-commerce is the key to ensuring its stable development. As the cradle of future business leaders, universities must provide students with e-commerce security and risk management education, so that they can cope with e-commerce security challenges before entering society. In addition, with the continuous development of e-commerce, new issues and challenges continue to emerge, and college courses need to keep pace with the times, constantly update and improve the relevant content to ensure that students can master the latest knowledge and skills. Therefore, e-commerce security and risk management is not only an important content of college courses, but also

the key to training talents to adapt to the future business environment.

2. The Necessity of E-commerce Security and Risk Management

Electronic commerce is an indispensable part of commercial activities in modern society, and its security has a direct and significant impact on the survival and development of enterprises. In all aspects of e-commerce, from the confidentiality and integrity of data to the security of transactions and the stability of the system, there are all kinds of risks. First of all, data protection is the foundation of e-commerce security. Companies need to ensure the security of sensitive data such as customer information and transaction records to prevent

*Corresponding Author:

Yongchang Cai,

Xi'an Institute of Translation, Xi'an, Shaanxi, 710105, China;

Email: 58461710@qq.com

data leaks or malicious exploitation. This is not only related to the reputation of the enterprise, but also may violate relevant laws and regulations, resulting in serious legal consequences. Therefore, the establishment of a sound data protection mechanism is a basic requirement for every e-commerce enterprise. Second, transaction security is critical to the success of e-commerce. From online payments to logistics, every link can be a target for fraud and theft. Enterprises need to adopt advanced technical means and rigorous management processes to ensure the security and efficiency of transactions. Moreover, system security is the guarantee of e-commerce operation. Threats such as hacker attacks and virus infection may cause serious damage to the e-commerce system and affect normal business operations. Therefore, the establishment of a strong security protection system, timely detection and response to various security threats is the challenge that e-commerce enterprises must face. In general, e-commerce security and risk management play an irreplaceable role in maintaining the normal operation of e-commerce, protecting the rights and interests of consumers, and enhancing the competitiveness of enterprises. Only by fully recognizing this point can we effectively prevent risks and promote the sustainable development of e-commerce. In the future competition, those e-commerce companies that can effectively manage risks and ensure security will be more likely to succeed [1].

3. The Significance and Value of College Curriculum

As an important base for personnel training, colleges and universities should set up courses related to e-commerce security and risk management to improve students' career competitiveness, and should also pay attention to the practicality and innovation of the courses. Through the simulation of e-commerce security and risk management scenarios in the real environment, students are organized to carry out practical exercises to improve their practical operation ability and problem-solving ability. At the same time, students are encouraged to participate in curriculum design, project research and other activities to cultivate their innovative thinking and team spirit. Such a curriculum will help cultivate high-quality talents with both theoretical knowledge and practical experience, and provide strong support for the healthy development of the e-commerce industry. The significance and value of the curriculum is mainly reflected in the following aspects:

1) Adapt to market demand: In the current digital, networked social background, e-commerce has become an important form of global business activities. However,

with its rapid development, the importance of e-commerce security and risk management has become increasingly prominent. The growing demand for people with these skills presents new challenges and opportunities for higher education institutions. First of all, colleges and universities need to adjust their educational strategies in time to meet this market demand. For example, courses related to e-commerce security and risk management can be offered to help students master relevant theoretical knowledge and practical skills. These courses may include the basics of cybersecurity, e-commerce law and ethics, and risk assessment and management. Through the study of these courses, students can not only understand the operation mechanism of e-commerce, but also master how to identify and deal with various security risks. Second, universities also need to strengthen cooperation with enterprises in order to better understand the latest trends and needs of the industry. For example, you can invite business professionals to give lectures or seminars, or organize internship programs for students, so that they have the opportunity to experience the security risk management of e-commerce. Finally, colleges and universities also need to pay attention to students' personal development and encourage them to explore and learn actively. For example, scholarships or research funds may be established to support students in conducting research on related topics. At the same time, lectures, seminars and other activities can also be held to provide a platform for communication and learning, and stimulate students' learning interest and innovative spirit. In the face of the growing demand for e-commerce security and risk management talents, colleges and universities need to actively respond by setting up relevant courses, strengthening school-enterprise cooperation, paying attention to student development and other measures to train more graduates with this ability [2].

2) Improve the comprehensive quality of students: E-commerce security and risk management is an interdisciplinary field, which not only involves the technical level, such as data encryption, network defense, etc., but also covers many fields such as laws and regulations and risk management. This means that people working in this field need to have a wide range of knowledge backgrounds and skills. First, from a technical point of view, e-commerce security and risk management requires a deep understanding of computer networks, database management, network security, etc. This is because most e-commerce activities are conducted online, so there need to be sufficient technical capabilities to protect the security of information and prevent risks such as data leaks and cyber attacks. Secondly,

laws and regulations are also an important part of e-commerce security and risk management. This includes understanding relevant privacy laws, copyright laws, contract laws, etc., to ensure the legality of e-commerce activities. At the same time, it is also necessary to understand how to resolve problems through legal means when disputes occur. In addition, risk management is the core of e-commerce security and risk management. This includes identifying and assessing potential risks, developing effective risk response strategies, and monitoring and adjusting these strategies to changes in the environment. This requires analytical and decisionmaking skills. Through the study of relevant courses, students can be helped to comprehensively improve their comprehensive quality and train them to become interdisciplinary talents. This not only helps them stand out in the job market, but also enables them to better cope with various challenges in their future jobs. Overall, e-commerce security and risk management is a complex and important area. Success in this field can only be achieved through comprehensive study and practice.

3) Cultivate innovative thinking and practical ability: With the development of science and technology, the field of e-commerce security and risk management changes with each passing day, and the demand for talents is constantly increasing. As the cradle of talent training, colleges and universities should keep up with the pace of the times, adjust the curriculum, and take it as their duty to cultivate compound talents with innovative thinking and practical ability. First of all, colleges and universities should put innovative thinking throughout the curriculum. In terms of teaching content, teachers can combine the latest industry dynamics and technological developments, introduce practical cases, and stimulate students' innovative thinking. In addition, teaching methods should also pay attention to innovation, using project-based learning, flipped classroom and other teaching methods to improve students' learning interest and initiative. At the same time, students are encouraged to participate in various innovation and entrepreneurship competitions to exercise teamwork and innovation ability. Secondly, colleges and universities should strengthen practical teaching links to improve students' practical ability. The school can cooperate with enterprises to carry out practical training projects, so that students can understand the actual operation process of e-commerce security and risk management in practical work, and improve the ability to solve practical problems. In addition, the school can also establish laboratories or research centers to provide students with experimental equipment and research platforms, encourage students to participate in subject research, and cultivate students' independent thinking and problem-solving abilities. Moreover, colleges and universities should strengthen the construction of teaching staff and introduce teachers with rich industry experience and practical ability. These teachers can provide students with more industry information and practical experience to help students better understand and master the knowledge and skills of e-commerce security and risk management. At the same time, schools can also invite business experts to serve as adjunct professors or mentors to provide practical guidance and support for students. Finally, colleges and universities should pay attention to the individual development of students and provide diversified training programs. For students with different interests and talents, the school can set up elective courses or special lectures to broaden students' knowledge and vision. In addition, schools can encourage students to study across disciplines and cultivate interdisciplinary talents with multi-disciplinary backgrounds [3].

4. The University Curriculum Setting Suggestions

Colleges and universities should pay attention to updating the curriculum content to keep pace with the development of e-commerce security and risk management. This includes paying attention to the emergence of new technologies and methods, and incorporating the latest research findings and industry developments into the teaching content in a timely manner to ensure that students are equipped with the latest knowledge and skills. At the same time, colleges and universities should establish an effective curriculum evaluation system, collect feedback from students and teachers in time, and continuously improve the curriculum to improve the teaching effect and meet the learning needs of students. In addition, universities should strengthen cooperation and exchanges with other universities, enterprises, industry associations, etc., to jointly promote the development of e-commerce security and risk management, and provide students with a broader platform for learning and development. In order to ensure the effective implementation of e-commerce security and risk management courses in colleges and universities, the following suggestions are for reference:

1) Improve the curriculum system: In this era of highly developed e-commerce, colleges and universities should keep up with the pace of the times and build a complete curriculum system to cultivate compound talents with knowledge of e-commerce security, risk management, laws and regulations. This course system should include the following aspects: First, the course content should cover the basic theory and technology of e-commerce security.

Students need to understand the importance of network security, master common network attack means and prevention methods, and learn to use various security tools for network security management. In addition, attention should also be paid to the application of emerging network security technologies, such as blockchain and artificial intelligence, in the field of e-commerce security. Secondly, risk management is an important part of e-commerce. Students need to understand the concept, classification and causes of risk, and learn to use risk management methods and skills to identify and evaluate various risks in e-commerce activities. At the same time, it is necessary to cultivate students' risk awareness, so that they can effectively avoid risks in practical operation. Moreover, laws and regulations are the legal guarantee of e-commerce activities. Students need to be familiar with e-commercerelated laws and regulations, such as the Contract Law, the Protection of Consumer Rights and Interests, etc., and understand how to resolve e-commerce disputes. In addition, attention should also be paid to the development dynamics of international e-commerce regulations in order to carry out e-commerce activities on a global scale. Finally, the link between courses is crucial. Teachers should pay attention to the consistency of curriculum content, so that students can form a systematic knowledge and skills system in the learning process. At the same time, students are encouraged to participate in practical projects and practical training, and apply the knowledge learned to practical work to improve the comprehensive quality and competitiveness of students.

2) Introducing advanced teaching methods: In the current educational environment, teachers are facing the challenge of how to stimulate students' interest in learning and improve teaching results. To this end, I propose a diversified teaching method, including case studies, group discussions and role playing. First of all, case study is a very effective teaching method. By analyzing real business cases, students can combine theoretical knowledge with practical operations to better understand and master knowledge. In addition, case analysis can also cultivate students' ability to analyze and solve problems, and improve their practical ability. Secondly, group discussion is also a very effective teaching method. Through group discussion, students can exchange ideas with each other and solve problems together, thus improving their thinking ability and teamwork ability. At the same time, group discussion can also stimulate students' interest in learning and make them more willing to participate in learning. Finally, role playing is a very vivid teaching method. Through role-playing, students can experience different roles first-hand, so as to better understand and master knowledge. In addition, roleplaying can also improve students' expression skills and adaptability, laying a solid foundation for their future careers. In addition, I recommend inviting industry experts to give lectures. In this way, students can not only hear the latest industry trends, but also learn about practical work experience, thus improving their competitiveness in employment. At the same time, it can also improve the quality of teaching, make the teaching content closer to the reality, and more conducive to students' understanding and mastery. In general, this diversified teaching method will help to improve the teaching effect and stimulate students' interest in learning.

3) Strengthen practical teaching links: In the current educational environment, colleges and universities should pay more attention to strengthening practical teaching links. The study of theoretical knowledge is important, but if there is no opportunity for practical operation, students' knowledge may become theoretical and cannot be truly transformed into practical ability. Therefore, colleges and universities should actively seek cooperation with enterprises and provide students with practical operation opportunities by establishing training bases. The training base is an important place for students to learn practical skills, which can allow students to learn and practice in the actual work environment, and improve their handson ability and the ability to solve practical problems. Through the training base, students can combine theoretical knowledge with practical operation, so as to better understand and master the knowledge. In addition, the training base can also transport qualified technical personnel for enterprises to achieve mutual benefit and win-win between schools and enterprises. In addition to setting up training bases, universities can also guide students to participate in practical projects. Practical projects are the best way to test students' practical ability and problem-solving ability. By participating in practical projects, students can apply their knowledge to practical work and improve their practical ability and innovation ability. At the same time, participating in practical projects can also help students understand industry dynamics and enhance their professional literacy. In general, colleges and universities should strengthen practical teaching links and provide more practical operation opportunities for students. This can not only improve students' hands-on ability and ability to solve practical problems, but also help them better transform theoretical knowledge into practical ability, laying a solid foundation for their future development. At the same time, it is also an important responsibility of colleges and universities to serve society and train high-quality talents [4].

5. Summary

E-commerce security and risk management is an important content of college courses, it is of great significance for training excellent talents to adapt to e-commerce environment. In today's digital age, e-commerce has become an important part of business activities, therefore, mastering the knowledge of e-commerce security and risk management is essential for students' future career development. In order to improve the teaching quality of this course, colleges and universities should constantly improve the curriculum and strengthen the practice teaching link. For example, you can invite industry experts to give lectures, or organize students to visit enterprises to see how they actually operate. In addition, teachers can also help students better understand and master knowledge through case analysis and simulation operations. In addition to the study of professional knowledge, colleges and universities should also pay attention to the cultivation of students' comprehensive quality and professional competitiveness. This not only includes the cultivation of professional skills, but also includes the spirit of teamwork, communication skills, innovative thinking and so on. It is through comprehensive and systematic development of students' abilities that they can be successful in their future careers. In short, e-commerce security and risk management is an important course, colleges and universities should pay enough attention to it and take effective measures to improve the teaching quality ^[5].

References

- [1] Li, Y., 2019. E-commerce security and risk management. Tsinghua University Press: Beijing. (in Chinese).
- [2] Wang, D.W., 2020. Research on e-commerce security and risk control. Business Economics. (6), 64–67. (in Chinese).
- [3] Zhang, F., 2021. Construction and practice of college electronic commerce security course system. Electronic Commerce. (2), 89–91. (in Chinese).
- [4] Wang, L.P., 2018. Research on e-commerce security and risk prevention. Beijing: Beijing University of Posts and Telecommunications. (in Chinese).
- [5] Jiang, Z.Y., 2019. Discussion on college e-commerce security and risk management education. Modern Commerce Industry. (35), 194–195. (in Chinese).