

Exploration of the Integration Path of the "Labor Spirit" and Higher Vocational Courses

-- Taking the Course of "Comprehensive Quality of Security Inspection" as an Example

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Abstract

This paper takes the course of "Comprehensive Quality of Security Inspection" in higher vocational colleges as the carrier, and systematically explores the integration path of the requirements of the labor spirit in teaching practice. By analyzing the convergence points among the course objectives, teaching contents and the needs of professional positions, this paper proposes an ideological and political education model of the ideological and political education system that integrates "ideology—skill—behavior" as a whole. The integration of the labor spirit can significantly enhance students' professional resilience and awareness of safety responsibilities, providing theoretical support and practical paradigms for cultivating civil aviation security inspection talents with both "morality and skills".

Keywords

"Comprehensive Quality of Security Inspection"; Labor Spirit; Ideological and Political Education in Courses; Integration; Professional Quality.

1. Introduction

The in-depth integration of ideological and political education into the professional courses of civil aviation safety technology management is the core path for cultivating professional talents in civil aviation safety technology management who have the feelings of loving the Party and the country and can consciously practice noble professional spirit and professional ethics. It is of inestimable significance for achieving the organic integration of value shaping and knowledge imparting. Under the grand blueprint of the strategy of building a strong civil aviation country, the safety mission shouldered by the security inspection position points out the direction for the penetration of ideological and political education in professional courses. In this crucial context, as an important part of professional education, the course of "Comprehensive Quality of Security Inspection" bears the heavy responsibility of internalizing the labor spirit into students' professional genes and externalizing it into safety practices.

Integrating the labor spirit into the courses of civil aviation safety technology management can cultivate students' feelings of loving the Party and the country and stimulate their enthusiasm for dedication to their jobs. In security inspection work, students will pay more attention to details, improve the accuracy of inspection with a high degree of concentration, reduce the risk of missed inspection and misjudgment, and build a solid line of defense for aviation safety. At the same time, the awareness of standardized processes will take root in the hearts of students, prompting them to be strict with themselves and improve the quality of security inspection. The spirit of dedication and sense of responsibility will inspire students to actively explore, optimize work processes, and pursue higher service quality. The in-depth integration of professional courses of civil aviation safety technology management and ideological and

political education in courses can achieve the organic unity of value shaping, knowledge imparting and professional skill cultivation, give full play to the educational function of courses, and effectively achieve the educational purpose of cultivating people with morality, strengthening professional quality, and comprehensively improving the quality of talent cultivation.

2. The Relevance between the Labor Spirit and the Professional Quality of Civil Aviation Security Inspection Positions

The five core connotations of the labor spirit, namely dedication to work, arduous struggle, pursuit of excellence, innovation and creation, and unity and cooperation, resonate at a deep level with the professional characteristics of civil aviation security inspection positions. As the first line of defense for aviation safety, civil aviation security inspection positions have the triple attributes of high intensity, high precision and high risk. Its essence is to adhere to the safety bottom line and respect for the dignity of life. The labor spirit just provides the spiritual core and practical path for this professional mission.

Dedication to work is the foundation of the professional quality of security inspectors. Facing the daily passenger flow of thousands of people and repetitive mechanical operations, security inspectors need to engrave the concept of "every inspection is the first inspection" in their hearts. Even under the dual pressures of physical fatigue and psychological burnout, they can still examine the slightest abnormalities in X-ray images with a high degree of concentration. This dedication is not only reflected in the mechanical execution of the process, but also in the deep recognition of the value of the position - every personal inspection is an active interception of potential risks and a specific practice of the mission that "aviation security is national security".

Arduous struggle is the requirement for adaptability to the special working environment of security inspection. Standing continuously during the peak periods of the cold and summer transportation, overloaded work during the Spring Festival travel period, and emergency handling of drunk passengers or sudden illnesses all test the physical fitness reserves and psychological resilience of practitioners. The security inspection position is not only characterized by high physical consumption, but also by greater decision-making pressure in complex scenarios, which is a kind of responsibility and courage to "move forward even in the face of difficulties".

The pursuit of excellence is the core criterion for security inspection technical operations. To identify contraband items disguised as daily necessities from X-ray images, security inspectors are required to complete the analysis of material density, comparison of structural features and determination of the danger level within 0.3 seconds; the millimeter-level scanning track of the handheld metal detector needs to cover the passenger's body without omission. This precision goes beyond simple technical proficiency and is more of a professional awe that "a small error can lead to a huge deviation".

Innovation and creation inject impetus into the continuous improvement of security efficiency. Facing new threats such as 3D printed weapons and plastic knives, traditional inspection methods have shown limitations. Security inspectors need to break through the dependence on experience, actively explore the application boundaries of technologies such as millimeter waves and AI-assisted image interpretation, and even invent methods to enhance the ability to identify abnormal behaviors in practice. Through micro-expression recognition and environmental factor analysis, a three-dimensional prevention and control network is established.

Unity and cooperation are the cornerstones of building a systematic security line. From the "three-post linkage" of the guiding post, the hand inspection post and the X-ray machine

operation post to the cross-departmental emergency response, security inspection work is essentially the crystallization of collective wisdom and collaborative ability. A successful interception of dangerous goods may start with the identification of abnormal behaviors at the pre-transmission post, be completed by the accurate interpretation of the X-ray machine operator, and end with the professional handling of the public security department - the seamless connection of each link interprets the symbiotic relationship between individuals and the collective under the "overall security concept".

The Relevance Map between the Labor Spirit and the Professional Quality of Civil Aviation Security Inspection Positions

3. The Embodied Practice of the Integration of the Labor Spirit and the Course

3.1. Dedication to Work: Physical Limit Challenge

In the curriculum system of the civil aviation safety technology management major, there is a highly targeted curriculum design for the cultivation of the dimension of dedication to work in the labor spirit, especially in the endurance training for high-intensity work.

Curriculum embodiment: The peak periods of the cold and summer transportation have always been periods when civil aviation security inspection work faces great challenges. To highly simulate this actual scenario, the course specially sets up the "Team Variable-speed Running" project. This project aims to comprehensively train students' endurance and concentration under high-intensity work pressure, which is deeply in line with the actual needs of security inspection positions.

This curriculum design is not only a test of students' physical quality, but also a deep tempering of their psychological stress resistance and sense of responsibility for the safety mission. By simulating the high-intensity work during the peak period of the summer transportation, students can personally experience the pressure and challenges faced by security inspectors in actual work. In the long-term weighted inspection tasks, they need to maintain a high degree of concentration at all times, carefully inspect the simulated luggage items, and not miss any details. Just like taking on the heavy responsibility of ensuring the absolute safety of aviation operations and the absolute safety of people's lives in real security inspection positions, they effectively transform the labor spirit of dedication to work into practical actions.

3.2. Pursuit of Excellence: The Pursuit of Precision in Technical Operations

In the curriculum framework of the civil aviation safety technology management major, the cultivation of the dimension of the pursuit of excellence in the labor spirit is mainly achieved through the special strengthening of strength quality and the strict control of the millimeter-level standard for emergency response, both of which play a key role in the pursuit of precision in security inspection technical operations.

Curriculum embodiment: As an important part of the civil aviation security inspection process, the bag inspection has extremely high requirements for the stability of the operation. To effectively meet this requirement, the course has carefully designed the core muscle group strengthening training module. This module fully takes into account the actual situation that security inspectors need to maintain stable hand movements and accurately operate tools for a long time during the bag inspection. The training content includes a variety of special exercises for the core muscle group, such as the variant of the plank support at a specific angle. It not only requires students to maintain the standard posture, but also needs to make subtle adjustments to the body posture according to the simulated bag opening action, so as to enhance the strength and coordination of the abdominal, back and pelvic floor muscle groups.

This design is effective in improving students' strength quality and thus achieving the precision of security inspection technical operations, enabling students to complete the bag inspection task more stably and accurately in actual work, and laying a solid foundation for ensuring aviation safety.

3.3. Innovation and Creation: Empowerment of the Virtual Simulation Base

In civil aviation security inspection work, emergency situations are often sudden and complex. In order to enable students to quickly and accurately respond when facing complex emergency scenarios, the course incorporates virtual simulation training in the virtual simulation training base for civil aviation security inspection technology management. By building a highly realistic composite scenario of "passenger with sudden illness + carrying suspicious items" through the virtual simulation base, simulating items such as 3D printed weapons, plastic knives, and plastic guns and explosives, and using technologies such as AI-assisted image interpretation, students can have an immersive experience of the difficult situations they may encounter in actual work. It cultivates students' emergency decision-making ability, physical reaction speed, accurate judgment ability, innovation ability and multi-task processing ability, and deeply implants the labor spirit of the pursuit of excellence into the hearts of students, enabling them to ensure the absolute safety of aviation operations and the absolute safety of people's lives with a high degree of professional quality and accurate operations in complex situations.

3.4. Unity and Cooperation: The Systematic Construction of the Security Line

In the talent cultivation system of the civil aviation safety technology management major, the ability of unity and cooperation is one of the core pillars for building a solid security line. Given the complex and changeable scenarios faced by civil aviation security inspection work, the efficient coordination among different positions is of vital importance. Therefore, the curriculum system is carefully planned with a cross-position coordination training module, aiming to comprehensively improve students' coordination and cooperation level among multiple positions.

Curriculum embodiment: In order to enable students to deeply understand and master the essence of cross-position collaborative work, the course innovatively creates the "Caterpillar" psychological stress resistance situation simulation training.

In the "Caterpillar" situation, every 8 to 12 students jointly form a "Caterpillar" team. The training sets special rules: except for the student at the end of the team who is given the ability to retain vision, the visual and voice communication abilities of the other students are strictly restricted. The student behind needs to firmly place both hands on the shoulders of the student in front, so as to build a physical contact-based communication bridge. The instructions are passed forward in an orderly manner along the "Caterpillar" team, just like a baton, until they reach the student at the head of the team. The student at the head of the team is responsible for receiving the action instructions from the teacher, which include seemingly simple but crucial instructions such as going straight and turning, and finally completing the tasks specified by the teacher.

During the whole marching process, students must concentrate fully, always pay attention to the subtle action signals transmitted from the rear or the front, quickly and accurately interpret the meaning of the instructions, and immediately make corresponding action adjustments. They not only need to maintain the close connection of the team to prevent the team from being disjointed due to misunderstandings or slow actions, but also ensure the accuracy of the marching direction. As the training progresses, students will encounter many difficulties, such as misinterpreting the information due to improper control of the strength and rhythm during the instruction transmission process, or losing concentration due to physical fatigue after maintaining the restricted state for a long time. However, it is precisely in the process of

overcoming these difficulties that students' psychological stress resistance is greatly exercised. They learn to stay calm under pressure, adjust their mentality, and strive to complete the tasks. This training process is like a difficult journey, which not only puts forward strict requirements for students' individual reaction speed, physical coordination ability and the ability to understand non-verbal information, but also greatly tests the teamwork tacit understanding and cohesion of the team. In the situation where they cannot rely on conventional voice and visual communication, students deeply realize the importance of trusting their teammates. They strive to accurately transmit and receive information and gradually form a highly coordinated organic whole.

Through repeated participation in the psychological stress resistance situation simulation training, students gradually master the skills of efficient cooperation under extremely restricted conditions and deeply understand the key significance of mutual cooperation and information sharing among team members. This training mode deeply imprints the labor spirit of unity and cooperation in the hearts of students, and at the same time greatly improves their psychological stress resistance. This lays a solid foundation for them to engage in the civil aviation industry in the future and work hand in hand with different departments to ensure the absolute safety of aviation operations and the absolute safety of people's lives in actual work.

4. Conclusion

Through the in-depth integration with the "labor spirit", the course of "Comprehensive Quality of Security Inspection" has constructed an ideological and political education system that integrates "ideology—skill—behavior" as a whole, providing a replicable educational paradigm for the cultivation of civil aviation security inspection talents. In the future, it is necessary to further explore the use of metaverse technology to build virtual training scenarios and simulate new threats such as the detection of nanomaterials; at the same time, deepen the "school-enterprise collaborative certification mechanism" to promote the dynamic connection between the course content and industry standards, and continuously build a solid line of defense for aviation safety.

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