

Exploration on the Path of Integrating "Aerospace Spirit" into National Defense Education with the Characteristics of Higher Vocational Colleges -- Taking Sichuan Aerospace Vocational College as an Example

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ABSTRACT

This paper is based on the unique excellent Aerospace cultural background of Sichuan Aerospace Vocational College, combine the red gene contained in the "aerospace spirit" with national defense education with patriotism education as the core, and create a unique "four in one" national defense education model of Industrial Higher Vocational Colleges with the characteristics of "classroom teaching - campus culture - platform construction - National Defense practice", It provides ideas and references for vocational colleges to carry out national defense education.

Keywords: *Aerospace spirit, Red gene, National Defense Education.*

1. INTRODUCTION

Unremitting self-improvement and strive for progress with determination, Xi Jinping, general secretary of the CPC in April 23, 2020, wrote to the old scientists who participated in the task of "east red one". They created the extraordinary achievements that made the people of all nationalities proud and demonstrated the great spirit of the Chinese nation in its self strengthening. "Fully explain the value of the space spirit, and vigorously carry forward and practice the space spirit in the new era. It is not only an inevitable requirement for leading the development of China's aerospace industry, but also a spiritual driving force for all Chinese people to achieve the "two centenary" goals and realize the Chinese dream of the great rejuvenation of the Chinese nation.

2. ON THE CONNOTATION OF RED GENE IN "AEROSPACE SPIRIT"

The traditional spirit of aerospace, the spirit of "two bombs and one satellite" and the spirit of manned Aerospace embody the lofty ideological realm, good spiritual outlook and excellent work style of China's aerospace workers, and have rich ideological connotation, great influence and appeal. With infinite loyalty to the motherland and the people, astronauts have

forged the traditional Aerospace spirit of "self-reliance, hard struggle, strong coordination, selfless dedication, preciseness and pragmatism, and the courage to climb" with their youth, sweat and even life; It has forged the spirit of "two bombs and one star" of "loving the motherland, selfless dedication, self-reliance, hard work, strong coordination and courage to climb"; It has forged the manned spaceflight spirit of "being able to bear hardships, fight, tackle key problems and contribute". These spiritual wealth are the unique concept of honor and disgrace of astronauts who adhere to the supremacy of the motherland and the people, and the vivid embodiment of astronauts' world outlook, outlook on life and values.

2.1. The source of "aerospace spirit" is full of red genes

Looking back on the development of China's aerospace industry, red gene runs through the whole process. It is an important spiritual force supporting the development of China's aerospace industry and contains the code for the success of China's aerospace industry. At the beginning of the founding of new China, the foundation of China's national defense industry was very weak. The Party Central Committee decisively made a strategic decision to develop high-end weapons. The

older generation of astronauts started from scratch, relied on their own wisdom, worked hard, broke through scientific principles and key technologies, achieved victory step by step, and created aerospace "miracles" one by one. From the source, it has the red gene.

2.2. The connotation of "aerospace spirit" contains red genes

Loving the motherland and people is the eternal value core of aerospace spirit. The interests of the motherland and the people are above all else. The national spirit with patriotism as the core is the essence of the aerospace spirit. Loving the motherland and the people is the "root" and "soul" of the aerospace spirit. Aerospace industry originated from national defense construction, and its spiritual culture is the spirit of collectivism and the concept of common development under the socialist system. A history of the development of aerospace industry is a history of condensing the will of the people into the will of the country and serving the people wholeheartedly. The selfless dedication of astronauts is the concentrated expression of their core values of "national interests above everything". Its strong patriotism and connotation is one of the important forms of red gene.

2.3. The historical significance of "aerospace spirit" is full of red energy

In order to promote China's first star, a large number of witnesses, witnesses and participants in the aerospace industry represented by Qian Xuesen, some gave up the superior scientific research conditions and living environment abroad, some bid farewell to the bustling city, took root in the mountains, fought in the desert, hid their names, offered their youth, and worked together to overcome difficulties. The ambition of serving the country with the party and the achievements and meritorious deeds that will remain in the annals of history interpret the value pursuit that the interests of the motherland are above all, accumulate a military culture with unique characteristics and innovative quality, and become a memory Monument and spiritual symbol for the Chinese nation to climb the peak of science and technology forever.

3. INTERNAL LOGIC AND CONNECTION BETWEEN "AEROSPACE SPIRIT" AND NATIONAL DEFENSE EDUCATION

Although Aerospace spirit and national defense education are two different concepts, there are certain internal logic and common points in terms of historical evolution, specific connotation, function and historical significance.

3.1. Same origin, same strain

From the perspective of the origin and formation of aerospace spirit, aerospace spirit and modern national defense education have the same origin and come down in one continuous line. Aerospace spirit is the spiritual crystallization of a special era and the product of national construction. It is an important branch and source of the broad connotation of national defense spirit. General secretary Xi Jinping, in his reply to the old scientists who participated in the task of "Dongfang Hong 1", stressed: "no matter how the conditions change, we must not lose our ambition of self-reliance and hard struggle." "Dare to overcome all difficulties and obstacles, dare to climb the peak of Aerospace Science and technology, make the Chinese step in exploring space more stable and farther, and realize the great dream of building an aerospace power as soon as possible" Under the new historical orientation, the aerospace spirit keeps pace with the times and radiates new vitality. However, the difference is that the formation time of the aerospace spirit is shorter than the national defense spirit and national defense culture, and the emergence of national defense culture is accompanied by the emergence of the country, and its connotation is rich according to different times.

3.2. Consistent with the core connotation

The connotation of loving the party, patriotism and selfless dedication in the "aerospace spirit" is consistent with the core connotation of national defense education to protect the country. Loving the party and patriotism is the due meaning and core connotation of patriotism. Patriotism has always been deeply rooted in the hearts of the Chinese people and inspired countless people to strive for the prosperity and development of the motherland. In the face of the ups and downs of the international situation at that time, the western developed capitalist countries led by the United States adopted an economic blockade against China, the Soviet Union unilaterally withdrew its experts stationed abroad in China, and even forced them with force and made severe threats. It is against this background that the development of China's aerospace industry is related to the overall situation of safeguarding national security and realizing national rejuvenation. A large number of aerospace experts gave up the favorable conditions given by foreign countries, broke through many obstacles and returned to the motherland to devote themselves to the great practice of new China's aerospace industry. They devoted all their life to the construction of major aerospace projects such as China's missile industry, Shenzhou experimental spacecraft and lunar exploration. Patriotism and love for the party are not empty slogans. They have always expressed it with practical actions. This feature is highly consistent with the connotation of national defense education. The important embodiment of protecting the country is to take the national interest as the only

consideration, sacrifice the ego, improve the ego, and express the original intention and determination with actions when the country needs it.

3.3. Common points of spiritual existence

In terms of function and function, the two spirits also have something in common. First of all, both are the great spirit formed by the Communists in the process of overcoming difficulties, condensing the painstaking efforts of the astronauts and communists, so they have played an irreplaceable role in the long river of history; Secondly, the functions of both have a long timeliness, which means that they will not disappear due to the changes of the times. On the contrary, with the changes of time and space, both will have different spirit of the times and new blood. For example, the "aerospace spirit" contains the spirit of daring to explore, and the spirit of daring to explore is placed in the background of the new era, It means innovation. General secretary Xi Jinping's theory of strong army is also the latest theoretical product of national defense spirit in the contemporary era. Finally, both the "aerospace spirit" and the national defense spirit have richer connotations in the new era, continue to play an irreplaceable role in real life, and continue to be endowed with more connotations and greater functions.

4. EXPLORATION ON THE PATH OF INTEGRATING THE RED GENE IN "AEROSPACE SPIRIT" INTO THE PRACTICE OF NATIONAL DEFENSE EDUCATION IN HIGHER VOCATIONAL COLLEGES

"A spirit can only be implemented, achieved actual results and truly sublimated if it is materialized". Sichuan Aerospace Vocational College is a higher vocational college directly under China's aerospace industry and the only higher vocational college of the national defense and military industry system in Sichuan. It carries the mission of basing itself on aerospace and serving Aerospace, adheres to the aerospace spirit of "being rigorous, pragmatic and brave to climb" Based on the principle of "aerospace, school enterprise integration", in practice, it has created a unique "four in one" national defense education model of industry higher vocational colleges with the characteristics of "classroom teaching - Campus Culture - platform construction - National Defense practice", carried out a series of characteristic national defense education teaching and extracurricular practice around the "aerospace spirit", and achieved certain results.

4.1. Integrate the aerospace red gene into the national defense teaching classroom and lay a good cultural foundation

The combination of "red gene" and classroom education and teaching mainly means that part of the connotation of aerospace spirit is reflected in the teaching classroom of military theory course, the role of classroom as the main position of education is brought into full play, and the red gene connotation of aerospace spirit is penetrated into the whole process of national defense textbook compilation, talent training scheme formulation and classroom teaching. Actively integrate and embody the aerospace spirit in the process of national defense education and teaching; In the military training, which is the main teaching form of national defense education, teachers and counselors publicize the aerospace spirit when guiding students to carry out physical training, encourage students to carry forward the spirit that aerospace people are especially able to bear hardships and fight, overcome difficulties, hone their will and strengthen their physique in physical training. Strengthen the training of all kinds of teachers through pre job training, selection and training, practical training, theoretical research, external introduction and other measures, and use the words and deeds of managers and educators to achieve the teaching purpose of aerospace spirit and national defense knowledge. On the occasion of freshmen entering the school, by teaching the development background of China's aerospace, let students know the extremely unusual struggle process of China's aerospace industry, cast the three spirits of aerospace with their youth, sweat and even life, and give students a vivid national defense education course in combination with aerospace serving the country, so as to make the content of the national defense education classroom vivid and close to the actual situation of the school, Let students have a sense of intimacy.

4.2. Integrate Aerospace red gene into campus culture and create campus characteristic national defense culture

Sichuan Aerospace Vocational College combines the aerospace spirit with the national defense campus culture, infiltrates the national defense elements in the aerospace spirit into the system construction, humanistic atmosphere and other aspects, creates a unique Aerospace national defense campus culture and gives full play to the effect of education. Publicize the essence of aerospace culture and form a position to highlight Aerospace spirit everywhere. Implement the aerospace visual recognition system to form a significant logo different from other schools. Hang the aerospace logo in the main building of the campus, and print the aerospace logo on the admission notice of freshmen, students' practice clothes, students' homework books, honor certificates, labels of instruments and equipment,

laboratory operating procedures, etc. Take aerospace as the theme, name the trunk roads and buildings in the campus. Aerospace visual recognition system is deeply rooted in the hearts of the people, so that students never forget that they are astronauts. It has condensed the school motto of "strict, careful, practical, loyal and trustworthy" with aerospace characteristics, so that students can always remember the fine traditional style of aerospace and truly feel the internal charm of aerospace spirit.

4.3. Combine the aerospace red gene with the construction of national defense education platform to create a social practice platform

Build a social practice platform according to the "1 + 3" model. "1" is to build a teacher's national defense education, ideological and political education and social practice base, and take Sichuan Aerospace Wanyuan old area as the teacher's social practice base. The college often organizes teachers to study, so as to enhance teachers' national defense awareness, aerospace mission and responsibility; "3" refers to the establishment of three types of social practice education bases for students, namely, the establishment of national defense education base, professional skills training base and innovative practice education base. Relying on Sichuan Aerospace Vocational Education Alliance, an off campus training base is established in aerospace enterprises to enable students to feel Aerospace culture and aerospace spirit in their post practice, and an aerospace skill master workstation and professional science and technology associations composed of more than 40 aerospace special and senior technicians are established in the school, Many craftsmen from large countries, such as Gao Fenglin, a national may day labor medal winner, Wang Lianyou, a special Aerospace technician, a winner of the Chinese skills award, Qu Zhenhai, a national technical expert and a special Aerospace technician, were invited to teach skills to students and cultivate students' innovation awareness and innovation ability.

4.4. Combine national defense practice with "aerospace spirit" to serve aerospace

Sichuan Aerospace Vocational College carries out national defense education through the combination of campus propaganda group, campus activities, social practice and "aerospace spirit", closely connects theoretical learning and practical activities, and improves students' national defense awareness. The college carries out various space themed activities to enhance students' pride. Carry out various campus activities with the theme of aerospace and national defense, so that students can deepen their understanding of aerospace and national defense in this strong cultural atmosphere. Whenever the college makes a new major breakthrough in the aerospace industry, it timely organizes students to carry out various

forms of celebration activities, such as the successful launch of the first space capsule "Tianhe core warehouse" of the Chinese space station, the successful manned space flight of Shenzhou 11, and the successful flight of Chang'e 2 around the moon. Huge congratulatory slogans are hung everywhere, At the same time, organize students without classes to watch live TV. Regularly hold a series of activities related to aerospace, such as aerospace knowledge competition, speech competition, essay competition, etc. On every China Aerospace anniversary, corresponding celebrations will be organized. Field visits to patriotic Aerospace bases to enhance national pride. By organizing students to visit the aerospace science and Technology Museum, aerospace manufacturing workshop and physical objects of aerospace products for education, students can truly feel the style and aerospace spirit of "strict", "cautious", "meticulous" and "practical" of astronauts.

Under the background of millions of enrollment expansion of vocational education, a large number of veterans returned to the campus. They received strict military management in the army, have strong physique, good ideological quality, excellent political quality, and master and reserve certain national defense knowledge. Therefore, during the military training of freshmen, Sichuan Aerospace Vocational College invited these students to act as part-time instructors to assist instructors in military training management, which narrowed the distance between instructors and freshmen and gave full play to the talents of retired soldiers. The college uses retired soldiers to form a national defense knowledge publicity and education group, which includes the military culture and the spirit of patriotism and love for the party in the aerospace spirit. At the same time, the students of the Propaganda Group regularly carry out national defense culture publicity such as national defense culture lectures, video performances and Military Boxing classes to all departments and departments. This series of activities have achieved good repercussions on the campus and formed a good national defense culture atmosphere, which is conducive to students to establish a correct concept of national defense.

5. CONCLUSIONS

This paper introduces "aerospace spirit" into national defense education and organically combines "aerospace spirit" with national defense education. On the one hand, it is in line with the school orientation of the college and the needs of aerospace for the cultivation of high skilled talents; On the other hand, it effectively solves the problem of insufficient investment and attention of schools and society to national defense education, and improves the teaching effect of national defense education.

Project Name

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