

# Reconstruction and Enhancement: The Impact of “Integration of Expertise and Innovation” on the Quality Improvement of Talent Cultivation in Universities

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**Abstract:** This study aims to explore the impact of professional integration on the quality of talent cultivation in local colleges and universities, and analyze how to reconstruct and improve the talent cultivation model of local colleges and universities. This paper will first introduce the necessity, practical value; analyze the research method and data, give research conclusions and suggestions. It is hoped that this study will provide theoretical and practical references to the educational reform of colleges and universities, and provide references to reform and optimize the educational model of local colleges and universities.

**Keywords:** Professional and innovative integration; Curriculum standards; Reconfiguration and enhancement; Application and adaptability

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## **Fund Project:**

Teaching Management Reform Project of Shaanxi Institute of Fashion Engineering: Research on the Path to Improve the Quality of Mass Entrepreneurship and Innovation Education in Local Universities from the Perspective of Education Ecology(Project No.: 2023JGZX001)

## **1. The necessity and value of integrating innovation and entrepreneurship education into professional education and its importance to the quality of university talent training**

1.1 Integrate innovation and entrepreneurship education with professional education to strengthen students' practical ability and innovative thinking: combine professional knowledge with innovation and entrepreneurship in practice to solve practical problems; enhance interpersonal skills and develop teamwork and problem-solving skills through team projects and practical cooperation in competitions. Enhance students' practical ability and innovative thinking.

1.2 Innovation and entrepreneurship education enhances students' employability and entrepreneurship: In addition to professional knowledge and skills dual innovation education cultivates creativity, critical thinking, team cooperation, communication skills, wind bearing and problem solving skills. These skills are critical to students' personal development and career success, improving employment and entrepreneurial opportunities.

1.3 Innovation and entrepreneurship education improves the quality and impact of private university education. Introducing innovation and entrepreneurship as a new evaluation standard, showcasing entrepreneurial achievements and student awards, motivating teachers and schools, and improving the quality of education and social influence. Satisfy students' development needs, meet the regional economy's demand for talents, and enhance the social status and competitiveness of the college.

Table 1: Similarities and differences between traditional professional education and innovation and entrepreneurship education in developing students' abilities (Based on national curriculum standards and undergraduate talent development programs, combining of competency goal setting)

Key points of competence development for professional education		Key points of competence development for innovative entrepreneurship education	
Competency Highlights	Capability Description	Competency Highlights	Capability Description
Subject knowledge and professional skills	Dedicated to imparting core knowledge and skills in the subject area. Students acquire specialized knowledge in specific fields through systematic study and practice, thus laying the foundation for a future career in the relevant field.	Creativity and innovative thinking	Students are encouraged to think about problems and find innovative solutions. Students will learn to use creativity to identify new opportunities and conceptualize innovative products, services or business models.
Problem solving and analytical skills	Students develop problem solving and analytical skills to enable them to understand and solve difficult problems in specific areas. Students acquire the methods and skills to analyze problems and propose solutions through the study of subject matter and practical application.	Problem solving skills	Students are encouraged to identify and solve real-world problems. Students will learn to use innovative approaches and strategies to address challenges and find workable solutions.
Critical Thinking	Students are encouraged to think critically and evaluate information. Students develop critical thinking and learn to evaluate and judge ideas and evidence through disciplinary research, reading papers, and engaging in discussions.	Critical Thinking	Students are required to analyze and evaluate the viability of business opportunities. This develops students' critical thinking skills and enables them to examine and solve problems.
Communication and presentation skills	Focus on developing students' communication and presentation skills. Students improve their ability to express themselves clearly, logically, and communicate effectively with others by writing papers, presenting speeches, and participating in group discussions.	Communication skills and presentation skills	Students are required to present and sell their ideas to potential investors, clients or partners. Students develop their communication and presentation skills.
Teamwork ability	It usually involves team projects and cooperation. Students are required to work with peers on tasks and projects, develop collaboration and leadership skills, and learn to work with others to achieve common goals.	Teamwork and leadership skills	Conducted through group projects or business plan competitions, students are encouraged to work with others. Students will learn to work with team members, listen to the perspectives of others and lead the team to achieve a common goal.
Self-directed and continuous learning ability	Students develop self-directed and continuous learning skills. Students continue to improve their knowledge and skills through independent research, academic discussions and professional practice, and follow the development of the field for continuous learning.	Risk tolerance and decision-making ability	Entrepreneurship education encourages students to face risks and make decisions. Students will learn to assess and manage risk and make informed decisions in an uncertain environment.

From the above table, it is easy to see that professional education and innovation and entrepreneurship education have similarities in terms of competency goal development, and at the same time can complement and benefit each other.

## 2. The path and implementation plan of integrating specialties and innovations

Integrating professionalism and innovation refers to combining professional knowledge with new entrepreneurship to solve real-life problems in an innovative way and to achieve the goal of entrepreneurship and innovation in the professional field. This requires an ecological perspective and integrated implementation to achieve "integration of professionalism and innovation, school-enterprise synergy and integration of industry-university-research". The following are the paths and plans to implement the integration of professionalism and innovation:

2.1 Establish efficient innovation and entrepreneurship incubators and interdisciplinary cooperation platforms, such as innovation centers and incubation gas pedals. Attract students and faculty from different professional backgrounds to participate in innovation projects to promote the exchange and integration of knowledge and capabilities. Introduce third-party institutions to participate in the operation and business operation of the incubation center.

2.2 Integrate innovation and entrepreneurship curriculum: The university has established a special curriculum for innovation

and entrepreneurship and launched the “Integrating Professionalism and Innovation” program to encourage professional teachers to integrate professional knowledge with innovation and entrepreneurship concepts and methods. Improve the content, teaching process and assessment format of the curriculum, covering creative discovery, business planning, marketing, project management, etc., to train students to combine professional knowledge with innovative thinking and entrepreneurial skills.

2.3 Mention practice opportunities and resource support: the school organizes industry competitions, project diagnostic sessions and business incubators to provide students with resources such as funding, mentor support and infrastructure facilities to promote innovation and entrepreneurial practice.

2.4 Cultivate a team of mentors for innovation and entrepreneurship: The school cultivates mentors with experience and expertise to provide guidance and support to students and help them integrate professional knowledge and entrepreneurial skills through case studies and innovative thinking.

2.5 Emphasize teaching design that integrates theory and practice: Integrate innovation and entrepreneurship concepts into disciplines and courses, including innovation methods, market research, and business model design. Introduce practical projects and case studies to develop the ability to solve real-world problems. Improve innovation and entrepreneurship practice skills through project-oriented learning, internship training and industrial cooperation. Design a curriculum that integrates innovation and entrepreneurship theory and practice.

2.6 Establish innovation culture and entrepreneurial ecosystem: encourage students to be creative, form teams and implement projects to promote growth in professional learning; provide policy, financial and cultural support to practice integration of professionalism and innovation.

2.7 Strengthen quality control, integrate innovation and entrepreneurship education resources, and ensure the effectiveness of the “integration of professionalism and innovation” curriculum. Optimize the teaching and learning process, clarify objectives, plan content and design, improve teacher quality, implement quality standards, guide methods, and conduct comprehensive assessment and monitoring. Promote the attention and improvement of educational resources, teachers and students to meet higher quality requirements.

2.8 Based on the OBE framework, applied colleges and universities should focus on improving teaching forms, promoting learning-centered, project-case and heuristic, discussion-based teaching; adjusting completion methods to teamwork; upgrading assessment methods to process assessment; and introducing pilot courses on professional and innovation integration to cultivate students’ entrepreneurial abilities.

2.9 Establish a cross-campus and cross-region resource sharing platform to promote the integration of science and technology with education through industry-teaching-research-use synergy and government-industry-university-research linkage. Cooperate with innovation subjects to build innovation ecosystem and promote the development of organic integration of professional education and innovation and entrepreneurship education. The focus is on building professional and innovation integration courses to enhance graduates’ social adaptability and development ability.

## **Conclusion:**

The curriculum integrating professionalism and innovation plays an active role in the quality of talent cultivation in universities and the social adaptability and development ability of graduates. From the perspective of educational ecology, the construction of professional and innovative integrated courses is not only to meet the demand of society and industry for talents, but also an important means to cultivate students’ creativity, innovation and practical ability and improve their competitiveness in the future workplace.

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