ISSN: 2792-8268

Volume: 42, May-2025

http://sjii.indexedresearch.org

Early Orientation of Preschool Children Toward Modern Professions: Psychological and Pedagogical Foundations

Hamroyeva Komila Akhmatovna

2nd-year student, Department of Preschool Education, Navoi State University

Abstract: This article explores the pedagogical aspects of sparking interest in modern professions among preschool-aged children and guiding them toward career orientation. It analyzes the importance of innovative methods, game-based technologies, and project-based learning in developing professional interests during early childhood education. The article discusses best practices currently applied in both the world and Uzbekistan, as well as methodologies for preparing children for future modern professions.

Keywords: preschool education, modern professions, STEAM education, robotics, career orientation for children, innovative pedagogy, project-based learning.

Introduction

In today's rapidly developing society, technology is advancing quickly, and new professions are emerging. Currently, there is a high demand for programmers, artificial intelligence specialists, robotics engineers, and experts in ecology and recycling. Therefore, it is essential to spark children's interest in modern professions from an early age and to develop their creative thinking. Preschool age is a critical period when a child's personality, interests, and knowledge begin to form. At this stage, it is possible to introduce children to various professions through projects, experiments, and interactive games. This article analyzes how children in preschool educational institutions can be oriented toward modern careers.

Methods

This study is based on a literature review of pedagogical and psychological theories, as well as analysis of current innovative teaching practices both internationally and in Uzbekistan. The research examines the application of STEAM education, project-based learning, and didactic games as methods for career orientation in early childhood. Psychological frameworks by Jean Piaget and Lev Vygotsky are used to support the developmental appropriateness of these approaches.

This study employs a qualitative research methodology combining theoretical analysis, comparative review, and contextual evaluation. Theoretical foundations are drawn from the cognitive development theories of Jean Piaget and Lev Vygotsky, which explain how preschool-aged children acquire knowledge and skills through interaction and guided learning. A comparative review of international practices from Finland, Singapore, and South Korea is conducted to identify effective strategies for early vocational orientation, such as the integration of robotics, coding, and creative technologies in preschool curricula. Additionally, content analysis is used to assess the implementation of STEAM (Science, Technology, Engineering, Arts, Mathematics), project-based learning, and simulation-based education methods. The study also evaluates current innovations in Uzbekistan, including the "Digital Generation" and "STEAM Centers" initiatives. This multi-faceted approach aims to develop a pedagogical framework for introducing modern professions to preschool children in ways that align with their developmental capabilities and interests.

ISSN: 2792-8268

Volume: 42, May-2025

http://sjii.indexedresearch.org

Results and Discussion

Psychological Foundations of Early Career Interest

Children begin forming professional interests at an early age. According to Jean Piaget's theory of cognitive development, children aged 3 to 7 are in the "preoperational stage," where imagination, logical reasoning, and creativity develop. Lev Vygotsky's concept of the "zone of proximal development" suggests that children can acquire new skills effectively when guided by adults or peers.

Introducing children to various professions at an early age can help them make more informed decisions in the future. For instance, a child interested in robots or computers may later pursue programming, artificial intelligence, or robotics.

Modern Educational Methods and Their Importance

In addition to traditional methods, modern education requires innovative approaches to guide children toward professions. The following methods have proven effective in nurturing curiosity and skills:

STEAM Education (Science, Technology, Engineering, Art, Mathematics):

Teaches these disciplines in an integrated manner to develop both analytical and creative thinking.

Examples:

Basic robotics – Children build simple mechanical models using Lego to learn engineering principles.

Introduction to programming – Visual languages like ScratchJr help children understand basic coding.

Environmental science – Simple experiments with water, air, and plants foster ecological awareness.

Project-Based Learning:

Engages children in solving real-world problems in groups, applying their knowledge practically.

Examples:

"Let's Build a Mini City" - Creating a city model introduces children to architecture and civil engineering.

"Little Scientists' Lab" – Basic chemistry experiments stimulate interest in science and research.

Didactic Games and Simulations:

One of the most effective ways for children to learn is through play. Simulations help them understand different professions.

Examples:

"Who Do You Want to Be?" – Role-play scenarios about doctors, teachers, engineers, and artists.

"Little Entrepreneur" – Games that teach basic business and project management skills.

Global Experiences and Innovations in Uzbekistan

Countries around the world have launched initiatives to introduce modern professions to preschoolers:

Finland – The Lukukio program integrates nature, technology, and art.

Singapore – The Playmaker project teaches the basics of robotics and programming.

South Korea – Preschools introduce artificial intelligence and virtual reality technologies.

Innovation and INTEGRITY

ISSN: 2792-8268

Volume: 42, May-2025

http://sjii.indexedresearch.org

In Uzbekistan, initiatives like Digital Generation and STEAM Centers are being introduced. New programs are being developed to teach coding and creative sciences in preschools using interactive learning tools. The Role of Parents and Educators.

Parents and teachers play a critical role in guiding children toward modern professions.

Parents should talk to children about different careers and take them to technoparks, science museums, and vocational centers.

Educators need to apply new teaching methods, identify children's individual interests, and tailor programs accordingly. Challenges and Solutions

Challenges in implementing modern career orientation in preschool education in Uzbekistan include: Lack of technical resources – Many preschools lack robots, computers, and lab equipment for STEAM education.

Shortage of qualified educators – There are not enough teachers trained in innovative methods. Persistence of traditional methods – Some parents and teachers still favor outdated approaches.

Suggested solutions: Develop public-private partnerships to open modern education centers with support from international and non-governmental organizations. Offer professional development courses for teachers in STEAM and project-based learning. Conduct seminars and webinars to inform parents about modern professions.

Conclusion

Guiding preschool-aged children toward modern professions is a crucial step in building their future career success. Through STEAM education, project-based learning, and didactic games, it is possible to foster creativity, logical thinking, and interest in technology. Uzbekistan should integrate foreign best practices and implement modern educational methods to prepare children for the future labor market. Guiding preschool children toward modern professions is essential for fostering creativity, critical thinking, and future career readiness. Integrating STEAM education, project-based learning, and interactive simulations supports early cognitive development and professional interest. Uzbekistan's adaptation of global best practices shows promise, but requires enhanced resources, teacher training, and parental involvement to be fully effective and ensure successful vocational orientation from an early age.

References:

- 1. Vygotsky L.S. (1978). *Mind in Society: The Development of Higher Psychological Processes*. Harvard University Press.
- 2. Papert S. (1980). Mindstorms: Children, Computers, and Powerful Ideas. Basic Books.
- 3. Montessori M. (1912). The Montessori Method. Frederick A. Stokes Company.
- 4. Resnick M. (2017). Lifelong Kindergarten: Cultivating Creativity through Projects, Passion, Peers, and Play. MIT Press.
- 5. Rogoff B. (2003). The Cultural Nature of Human Development. Oxford University Press.
- 6. Oʻzbekiston Respublikasi Xalq ta'limi vazirligi (2022). *Maktabgacha ta'lim davlat standarti*.
- 7. Anning A., Cullen J. (2004). *Early Childhood Education: Society and Culture*. SAGE Publications.
- 8. Katz L.G., Chard S.C. (2000). *Engaging Children's Minds: The Project Approach*. Ablex Publishing.

ISSN: 2792-8268

Volume: 42, May-2025

http://sjii.indexedresearch.org

9. Bers M.U. (2018). Coding as a Playground: Programming and Computational Thinking in the Early Childhood Classroom. Routledge.

10. Jalilova D. (2021). STEAM ta'limi va bolalarning kreativligi. Pedagogika jurnali, 4-son.

Spanish Journal of Innovation and Integrity | ISSN 2792-8268 | Volume-42 | May -2025 Page: 172