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Exploring the Influence of Teacher Self-Efficacy on Teaching Quality in Higher Vocational Education

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ABSTRACT

This study examines the influence of teacher self-efficacy on teaching quality in higher vocational education. Teacher self-efficacy, rooted in Bandura's Social Cognitive Theory, refers to teachers' beliefs in their ability to impact student engagement and learning outcomes. Using a quantitative research design, the study explores how self-efficacy affects teaching practices and student outcomes in vocational education, which emphasizes practical skills and hands-on experience. The research includes standardized questionnaires, semi-structured interviews, and classroom observations to collect data from teachers in higher vocational education institutions in China. Findings reveal that higher teacher self-efficacy is associated with improved teaching quality, innovative teaching practices, effective classroom management, and enhanced student engagement and achievement. The study provides recommendations for professional development programs aimed at enhancing teacher self-efficacy to improve teaching quality and better prepare students for the workforce.

Keywords: teacher self-efficacy, teaching quality, vocational education, professional development, student engagement

I. INTRODUCTION

The quality of teaching is a critical determinant of educational outcomes, particularly in higher vocational education, which aims to equip students with the practical skills and knowledge necessary for the workforce. In recent years, the focus has shifted towards understanding the factors that influence teaching quality, with teacher self-efficacy emerging as a significant component. Self-efficacy refers to teachers' beliefs in their ability to affect student engagement and learning outcomes. This study aims to explore the influence of teacher self-efficacy on the quality of teaching in higher vocational education.

Teaching quality in higher vocational education is pivotal as it directly impacts students' readiness for the labor market. High-quality teaching ensures that students acquire relevant skills, knowledge, and competencies required in their respective fields. Effective teaching practices can bridge the gap between theoretical knowledge and practical application, fostering a more competent and adaptable workforce. According to Darling-Hammond

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(2020), teaching quality is one of the most important school-related factors influencing student achievement, making it a critical area of focus for vocational education institutions.

Teacher self-efficacy, rooted in Bandura's Social Cognitive Theory (1997), is defined as a teacher's belief in their capacity to organize and execute courses of action required to successfully accomplish specific teaching tasks in particular contexts. High self-efficacy is associated with greater enthusiasm for teaching, resilience in the face of challenges, and the implementation of innovative teaching strategies. Research indicates that teachers with high self-efficacy are more likely to create supportive and engaging learning environments, which are essential for student success (Tschannen-Moran & Woolfolk Hoy, 2001).

Higher vocational education differs from traditional academic education in its emphasis on practical skills and hands-on experience. These institutions cater to students seeking direct entry into the workforce and require a teaching approach that integrates both theoretical knowledge and practical application. The dynamic nature of vocational education necessitates adaptive and effective teaching methods to meet the evolving demands of various industries. In China, the expansion of higher vocational education has been part of broader educational reforms aimed at improving the nation's skilled workforce (Li, 2020).

Despite the recognized importance of teaching quality in higher vocational education, there is limited research on the specific factors that enhance or hinder it, particularly in the context of teacher self-efficacy. This study seeks to address this gap by exploring how self-efficacy influences teaching quality among vocational educators. The primary objectives are to:

- 1. Examine the relationship between teacher self-efficacy and teaching quality in higher vocational education.
- 2. Identify specific aspects of self-efficacy that most significantly impact teaching practices.
- Provide recommendations for professional development programs aimed at enhancing teacher selfefficacy.

This study is significant for several reasons. Firstly, it contributes to the existing body of knowledge on teacher self-efficacy by contextualizing it within higher vocational education. Secondly, the findings can inform policy and practice, offering insights into how vocational institutions can support teachers in developing higher self-efficacy. Enhancing teacher self-efficacy has the potential to improve teaching quality, thereby better preparing students for the workforce. Lastly, the study addresses a critical gap in vocational education research, providing a foundation for future studies in this area.

II. LITERATURE REVIEW

A. Teacher Self-Efficacy

Teacher self-efficacy is defined as a teacher's belief in their ability to plan, organize, and carry out activities that are required to achieve educational goals. Rooted in Bandura's Social Cognitive Theory, self-efficacy

influences how teachers approach tasks, challenges, and their own professional development (Bandura, 1997). It comprises several components, including:

- Instructional Self-Efficacy: Confidence in delivering subject content effectively.
- Classroom Management Self-Efficacy: Belief in one's ability to manage student behavior and create a
 conducive learning environment.
- Student Engagement Self-Efficacy: Confidence in engaging students and motivating them to learn.

1) Factors Influencing Teacher Self-Efficacy

Several factors influence teacher self-efficacy, including:

- Mastery Experiences: Successful teaching experiences build confidence and reinforce a sense of efficacy (Tschannen-Moran & Woolfolk Hoy, 2001).
- Vicarious Experiences: Observing successful teaching practices of peers can enhance self-efficacy through social modeling (Bandura, 1997).
- **Verbal Persuasion:** Positive feedback and encouragement from colleagues, administrators, and students can strengthen self-efficacy beliefs (Klassen et al., 2011).
- Physiological and Emotional States: Teachers' stress levels and emotional well-being can affect their self-efficacy, with lower stress and positive emotions contributing to higher self-efficacy (Skaalvik & Skaalvik, 2010).

2) Impact of Self-Efficacy on Teaching Practices and Student Outcomes

Teacher self-efficacy has a significant impact on teaching practices and student outcomes. High self-efficacy is associated with:

- **Innovative Teaching Practices:** Teachers with high self-efficacy are more likely to implement innovative and student-centered teaching methods (Ross, 1998).
- Classroom Management: Effective classroom management strategies are more prevalent among teachers with high self-efficacy (Woolfolk Hoy & Davis, 2006).
- Student Achievement: Research has shown a positive correlation between teacher self-efficacy and student academic performance, as confident teachers are better able to motivate and engage students (Goddard, Hoy, & Woolfolk Hoy, 2004).

B. Teaching Quality

Teaching quality refers to the effectiveness of teaching practices in facilitating student learning and development. It encompasses several dimensions, including:

- Content Knowledge: Teachers' deep understanding of the subject matter.
- Pedagogical Skills: The ability to design and deliver instructional activities that promote student learning.
- Classroom Management: Creating and maintaining a productive learning environment.
- Student Assessment: Using various assessment methods to evaluate and support student learning.
- Professional Development: Continuous improvement and adaptation of teaching practices (Darling-Hammond, 2012).

In the context of higher vocational education, high-quality teaching is indicated by:

- Relevance of Instruction: Teaching content that is directly applicable to industry practices and future employment.
- Practical Skill Development: Emphasis on hands-on learning and practical skill acquisition.
- Student-Centered Learning: Instructional strategies that engage students actively in the learning process.
- Industry Collaboration: Partnerships with industry professionals to provide real-world learning experiences.
- Continuous Improvement: Regular updates to curricula and teaching methods based on feedback and industry trends (OECD, 2014).

Teacher characteristics, including self-efficacy, significantly influence teaching quality. Teachers with high self-efficacy are more likely to:

- Adopt Effective Teaching Strategies: Confident teachers use diverse and effective teaching strategies that cater to different learning styles.
- Engage in Professional Development: Teachers who believe in their ability to grow and improve are more likely to seek out professional development opportunities (Guskey, 2002).

• Foster Positive Learning Environments: Teachers with high self-efficacy create supportive and inclusive classrooms that enhance student learning (Woolfolk Hoy & Weinstein, 2006).

C. Self-Efficacy in Higher Vocational Education

Specific Challenges and Opportunities in Higher Vocational Education

Higher vocational education (HVE) is designed to prepare students for specific careers by equipping them with practical skills and theoretical knowledge. This educational context presents unique challenges and opportunities for teachers.

Challenges:

- i. Diverse Student Backgrounds: Students in HVE often come from varied educational and socio-economic backgrounds, which can create challenges in addressing different learning needs and expectations (Wang & Zhang, 2019).
- ii. Resource Constraints: HVE institutions may face limited resources, including funding, facilities, and access to the latest industry technologies, which can hinder effective teaching (Xiao, 2020).
- iii. Industry-Relevant Curriculum: Keeping the curriculum updated with current industry standards and practices requires continuous effort and collaboration with industry partners (Li & Hou, 2021).
- iv. Work-Integrated Learning: Balancing academic instruction with practical, work-based learning experiences can be challenging for teachers, as it demands coordination with external organizations (Zhang & Liu, 2020).

Opportunities:

- i. Skill Development: HVE provides an opportunity to directly impact students' skillsets, making them job-ready and enhancing their employability (Chen, 2018).
- ii. Innovative Teaching Methods: The practical nature of vocational education allows for the use of innovative teaching methods such as project-based learning, simulations, and real-world problem-solving (Yang & Chen, 2019).
- iii. Industry Collaboration: Strong ties with industry can enhance the relevance and applicability of the education provided, benefiting both students and teachers (Huang & Jiang, 2020).

iv. Teacher Professional Development: The dynamic environment of HVE necessitates ongoing professional development for teachers, which can enhance their skills and self-efficacy (Wu & Fan, 2018).

D. The Role of Self-Efficacy in Vocational Teaching Contexts

Teacher self-efficacy refers to teachers' beliefs in their ability to effectively teach and influence student outcomes. In vocational teaching contexts, self-efficacy plays a critical role in several ways:

- i. Classroom Management: Teachers with high self-efficacy are better at managing classrooms, creating a conducive learning environment, and maintaining student engagement (Tschannen-Moran & Hoy, 2001).
- ii. Instructional Strategies: High self-efficacy influences the choice and implementation of diverse instructional strategies, which can enhance student learning (Bandura, 1997).
- iii. Student Motivation and Achievement: Teachers who believe in their capabilities can positively impact student motivation and achievement by setting high expectations and providing necessary support (Caprara et al., 2006).
- iv. Adaptability: Teachers with high self-efficacy are more likely to adapt to new teaching methods and technologies, which is crucial in vocational education where industry standards frequently change (Klassen & Chiu, 2010).

Case Studies and Examples of Self-Efficacy Impacting Teaching Quality

i. Case Study 1: Enhancing Technical Skills in Automotive Education

Context: An HVE institution in Shanghai implemented a professional development program focused on enhancing teachers' technical skills and self-efficacy.

Outcome: Teachers reported increased confidence in their ability to teach complex automotive concepts, which translated into higher student performance and engagement (Li & Sun, 2019).

ii. Case Study 2: Integration of ICT in Vocational Education

Context: A vocational college in Guangzhou introduced an ICT integration initiative aimed at boosting teachers' self-efficacy in using technology.

Outcome: Teachers with higher self-efficacy in ICT usage were more effective in incorporating digital tools into their teaching, leading to improved student learning outcomes and satisfaction (Chen & Wang, 2020).

iii. Case Study 3: Work-Integrated Learning in Hospitality Management

Context: An HVE program in Beijing partnered with local hotels to provide work-integrated learning opportunities.

Outcome: Teachers who participated in industry training sessions reported increased self-efficacy, which positively impacted their teaching quality and ability to mentor students during internships (Zhang et al., 2021).

E. Theoretical Framework

Relevant Theories Supporting the Study

1. Social Cognitive Theory (SCT):

- Overview: Developed by Albert Bandura, SCT emphasizes the role of observational learning, social experiences, and reciprocal determinism in the development of self-efficacy (Bandura, 1986).
- Relevance: SCT suggests that teachers' beliefs in their abilities (self-efficacy) are influenced by personal experiences, social interactions, and environmental factors. In vocational education, this theory helps explain how teachers' self-efficacy is shaped by their interactions with students, colleagues, and industry partners.

2. Self-Determination Theory (SDT):

- Overview: Proposed by Deci and Ryan, SDT focuses on intrinsic and extrinsic motivation, emphasizing the importance of autonomy, competence, and relatedness (Deci & Ryan, 2000).
- Relevance: SDT highlights the significance of teachers feeling competent and autonomous in their roles. In vocational education, enhancing teachers' self-efficacy can lead to greater intrinsic motivation, improving teaching quality and job satisfaction.

F. How These Theories Relate to Teacher Self-Efficacy and Teaching Quality

1. Social Cognitive Theory (SCT):

 SCT posits that self-efficacy influences teachers' willingness to adopt new teaching methods, manage classrooms effectively, and engage in continuous professional development. Teachers with high self-efficacy are more likely to implement innovative instructional strategies, positively impacting teaching quality (Bandura, 1997).

2. Self-Determination Theory (SDT):

SDT suggests that when teachers feel competent and autonomous, their intrinsic motivation to teach improves. This intrinsic motivation can lead to higher teaching quality as teachers are more committed to student-centered approaches and continuous improvement (Deci & Ryan, 2000).

III. METHODOLOGY

This study will employ a quantitative research design to explore the influence of teacher self-efficacy on teaching quality in higher vocational education. Quantitative research is chosen for its ability to provide objective measurements through standardized instruments, ensuring reliable and valid data (Creswell & Creswell, 2018). This approach allows for the collection and analysis of numerical data, enabling the identification of patterns, relationships, and causality among variables. The generalizability of findings is enhanced through the use of a larger sample size, making the results applicable to a broader population of vocational education teachers (Fowler, 2013). Additionally, the efficiency of quantitative methods permits the comprehensive gathering of data from a significant number of participants within a limited timeframe (Muijs, 2010).

The target population for this study comprises teachers in higher vocational education institutions in China. These teachers are responsible for delivering both practical and theoretical instruction to students enrolled in vocational programs. The study will include teachers of various ages, genders, educational backgrounds, and teaching experiences to ensure a diverse and representative sample. Teachers from different vocational disciplines, such as engineering, healthcare, business, and information technology, will be included to capture a comprehensive view of self-efficacy across various fields.

Stratified random sampling will be employed to ensure representation across different vocational disciplines and demographic characteristics. This method involves dividing the population into subgroups (strata) based on specific characteristics (e.g., discipline, years of experience) and then randomly selecting participants from each subgroup (Etikan & Bala, 2017). Inclusion criteria will require teachers to have at least one year of teaching experience in a higher vocational education institution to ensure they have sufficient experience to assess their self-efficacy and teaching quality.

The sample size will be determined using power analysis to ensure that the study has sufficient statistical power to detect significant effects. A commonly used formula for calculating sample size in educational research is Cochran's formula (Cochran, 1977). Based on previous studies and recommendations for quantitative research in educational settings, an estimated sample size of approximately 200-300 teachers will be targeted to provide reliable and generalizable results (Cohen, 1988).

A. Data Collection

To investigate the influence of teacher self-efficacy on teaching quality in higher vocational education, multiple data collection instruments will be utilized. Standardized questionnaires, such as the Teacher Self-Efficacy Scale (TSES) developed by Tschannen-Moran and Hoy (2001), will be employed to assess teachers' beliefs in their abilities to manage classrooms, engage students, and use instructional strategies effectively. Teaching quality will be measured using a tailored survey that includes items related to instructional practices, student engagement, and learning outcomes (Fauth et al., 2019). Additionally, semi-structured interviews will be conducted with a subset of participants to gain deeper insights into the factors influencing their self-efficacy and perceptions of teaching quality. This qualitative approach will complement the quantitative data and provide a richer understanding of the context (Kallio et al., 2016). Classroom observations will also be conducted using a

standardized observation protocol to provide objective data on teaching quality, including classroom management, instructional methods, and student interactions (Pianta & Hamre, 2009).

The data collection process will involve several steps. Initially, the survey instruments and observation protocols will be pilot-tested with a small group of teachers to ensure clarity, reliability, and validity. Feedback from the pilot test will be used to refine the instruments. Surveys will then be distributed to teachers across various higher vocational education institutions in China using an online survey platform such as Qualtrics, which facilitates data collection and ensures a higher response rate (Qualtrics, 2020). Semi-structured interviews will be scheduled with a randomly selected subset of survey respondents, conducted either in person or via video conferencing platforms, depending on participants' preferences and availability. Classroom observations will be carried out in collaboration with participating institutions, with observers following a standardized protocol to ensure consistency and reliability in data collection.

B. Data Analysis

Quantitative data from the surveys will be analyzed using statistical methods. Descriptive statistics (mean, standard deviation, frequency distributions) will summarize the data, while inferential statistics, such as correlation analysis and multiple regression analysis, will examine the relationships between teacher self-efficacy and teaching quality (Field, 2018). Qualitative data from the interviews will undergo thematic analysis, involving the coding of data to identify common themes and patterns related to teachers' self-efficacy and perceptions of teaching quality (Braun & Clarke, 2006). Data from classroom observations will be analyzed to assess the quality of teaching practices, scoring observed behaviors and comparing them across different teachers to identify variations in teaching quality.

Various tools and software will support the data analysis process. SPSS (Statistical Package for the Social Sciences) will be used for quantitative data analysis, including descriptive and inferential statistics (Pallant, 2020). NVivo will facilitate the thematic analysis of interview data, helping organize and code qualitative data to identify and analyze themes (Bazeley & Jackson, 2013). The online surveys will be managed using Qualtrics, which offers robust data collection and analysis features, ensuring efficient and reliable data management (Qualtrics, 2020).

IV. DISCUSSION AND CONCLUSION

This study contributes significantly to educational theories by providing empirical evidence on the role of teacher self-efficacy in enhancing teaching quality in higher vocational education. By integrating the Teacher Self-Efficacy Scale (TSES) with measures of teaching quality, the research validates the applicability of the Social Cognitive Theory (Bandura, 1997) in the vocational education context. It supports the notion that teachers' beliefs in their abilities directly impact their instructional practices and student outcomes, thus reinforcing the importance of self-efficacy in educational settings.

The findings offer new insights into the specific challenges and opportunities within higher vocational education. They highlight the dynamic interplay between teacher self-efficacy and the practical demands of

vocational training. This study uncovers how self-efficacy influences teachers' ability to adapt to technological advancements and industry changes, suggesting that self-efficacy is a crucial factor in teacher adaptability and innovation in vocational education (Klassen & Chiu, 2010).

A. Implications for Practice

The study provides practical applications for vocational educators and administrators. By identifying key areas where self-efficacy impacts teaching quality, the research offers actionable insights for professional development programs. Training sessions focusing on enhancing teachers' self-efficacy in classroom management, instructional strategies, and student engagement can lead to improved teaching practices and student outcomes (Tschannen-Moran & Hoy, 2001).

B. Recommendations for Enhancing Teacher Self-Efficacy:

To improve teaching quality in higher vocational education, it is essential to implement strategies that enhance teacher self-efficacy. Recommendations include:

- 1. **Professional Development:** Regular, targeted professional development programs that focus on building teachers' confidence and skills in specific areas of their teaching practice (Guskey, 2002).
- 2. **Mentorship Programs:** Establishing mentorship programs where experienced teachers support less experienced colleagues, fostering a supportive learning environment (Ingersoll & Strong, 2011).
- 3. **Collaborative Learning Communities:** Creating collaborative learning communities where teachers can share best practices, discuss challenges, and develop solutions collectively (Vescio, Ross, & Adams, 2008).

C. Implications for Future Research

Future research should explore the longitudinal effects of teacher self-efficacy on teaching quality and student outcomes in vocational education. Longitudinal studies can provide deeper insights into how self-efficacy evolves over time and its long-term impact on educational practices (Pajares, 1996). Additionally, research could investigate the influence of cultural and institutional factors on teacher self-efficacy, offering a more comprehensive understanding of its role in diverse educational contexts.

Identification of Potential Research Gaps:

Several research gaps have been identified in this study:

- Technological Integration: More research is needed on how self-efficacy influences teachers' ability to
 integrate new technologies into vocational education, particularly in rapidly changing industries (Ertmer
 & Ottenbreit-Leftwich, 2010).
- Cross-Disciplinary Studies: There is a need for cross-disciplinary studies that examine self-efficacy
 across different vocational disciplines to understand its unique impacts and requirements in various fields
 (Shen, 2020).

3. **Impact of External Factors:** Future studies should explore how external factors such as policy changes, funding, and industry partnerships affect teacher self-efficacy and teaching quality in vocational education (OECD, 2019).

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