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The Application of the 7S Management Method in Vocational High School Class Management

Lina Lin[1] and Tsao Hsueh-Jen[2]
International College, Krirk University, Thailand
Email: 1185702247@qq.com, ORCID: https://orcid.org/0009-0006-6710-9985
Email: hsuehjen0615@gmail.com, ORCID: https://orcid.org/0009-0003-4255-7632

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Abstract

Background and Aim: Vocational high schools play a crucial role in cultivating technical and skilled talents. However, managing student behavior and fostering a positive learning environment remain significant challenges due to the unique characteristics of vocational students, such as lower academic foundations and weaker self-discipline. Traditional class management methods often fall short in addressing these issues. The 7S management method, originating from industrial management practices, has recently gained attention in educational settings. This study aims to explore the application of the 7S management method in vocational high school class management and its impact on student behavior and class environment.

Materials and Methods: This study employed a quasi-experimental design, selecting one class from a vocational high school as the experimental group. Data were collected through systematic observation, questionnaires, and semi-structured interviews. The 7S management method was implemented over a semester, during which changes in classroom environment, student behavior, and learning attitudes were monitored. To analyze the collected data, both quantitative and qualitative analysis methods were used. Quantitative data from the questionnaires were analyzed using descriptive statistics to summarize key trends, followed by inferential statistics, such as paired t-tests, to assess significant changes before and after the implementation of the 7S method. Qualitative data from observations and interviews were analyzed using thematic analysis, where recurring themes and patterns were identified and coded. This mixed-methods approach allowed for a comprehensive evaluation of the impact of the 7S method on the class environment and student behavior.

Results: The implementation of the 7S management method led to significant improvements in class cleanliness, student organization, and overall classroom discipline. Students reported increased satisfaction with the learning environment and a greater sense of responsibility. Qualitative data from interviews indicated that both teachers and students perceived positive changes in class cohesion and learning atmosphere.

Conclusion: The 7S management method is an effective tool for enhancing class management in vocational high schools. It not only improves the physical environment but also fosters positive behavioral changes and a stronger sense of community among students. Future research should focus on long-term effects and broader implementation strategies.

Keywords: 7S Management Method; Vocational High School; Class Management; Student Behavior

Introduction

Vocational high schools play a critical role in preparing students for successful careers by equipping them with the necessary practical skills and knowledge for a seamless transition into the workforce. These schools aim to bridge the gap between academic learning and real-world application, providing education tailored to specific industries and professions (Guan et al., 2022). However, the unique characteristics of vocational students present significant challenges in classroom management and creating a conducive learning environment. Many vocational students enter high school with lower academic achievements compared to their peers in traditional academic settings. Moreover, they often struggle with self-discipline and intrinsic motivation, which are essential for effective learning (Wu, 2020). As a result, educators face difficulties in maintaining classroom order, fostering an environment conducive to learning, and promoting active student engagement.

Traditional classroom management methods, which typically rely on punitive measures and strict rules, have been found insufficient for addressing these challenges (Nie et al., 2019). These methods often fail to engage students meaningfully or foster a sense of responsibility and ownership of their learning environment. Therefore, there is a growing consensus among educational researchers and practitioners that innovative approaches are needed to improve student engagement, instill responsibility, and create a more

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organized and supportive classroom environment (Meng, 2016). One such approach gaining attention is the 7S management method, a framework originally developed in industrial management to enhance organization, efficiency, and productivity. The 7S method includes seven principles: Sort, Set in Order, Shine, Standardize, Sustain, Save, and Safety (Song, 2021). These principles are widely recognized for their ability to create clean, organized, and efficient environments, and their potential benefits in educational settings are increasingly being explored.

The application of the 7S management method in vocational high schools offers a promising solution to several key challenges. First, by implementing the "Sort" principle, classrooms can be decluttered, creating a more organized and conducive learning environment, which is crucial for enhancing student focus and engagement (Wu, 2020). Second, the "Set in Order" principle helps to efficiently organize materials and resources, reducing distractions and allowing students to quickly access the tools they need. The "Shine" principle emphasizes cleanliness and maintenance, which not only improves the physical environment but also instills a sense of pride and responsibility among students (Huang, 2017). The "Standardize" and "Sustain" principles ensure that these practices are consistent and long-lasting, promoting self-regulation and a stronger sense of community within the classroom. Furthermore, by prioritizing "Safety" and "Save," the 7S method helps create a safe and resource-efficient environment, reducing risks and encouraging students to use resources wisely (Fu et al., 2015).

For example, the "Sort" principle can address the issue of disorganization in vocational classrooms, where materials and tools may be scattered or difficult to access. This principle helps students take responsibility for organizing their workspaces, fostering greater discipline. Similarly, the "Safety" principle can directly address student well-being concerns, such as ensuring that potentially hazardous tools or equipment are properly stored and maintained, preventing accidents, and fostering a sense of security in the learning environment.

This study aims to explore the practical application of the 7S management method in vocational high school class management and evaluate its impact on student behavior, class environment, and overall learning outcomes. By examining how the 7S principles can be adapted to an educational context, this research seeks to provide valuable insights into the potential benefits and challenges of implementing this method in vocational settings. The findings of this study are expected to contribute to the broader understanding of effective class management strategies in vocational education and offer practical recommendations for educators seeking to enhance their classroom practices.

Objectives

The primary objectives of this study are as follows:

To investigate the theoretical applicability of the 7S management method in vocational high school classroom management, focusing on how the principles of Sort, Set in Order, Shine, Standardize, Sustain, Save, and Safety can be adapted from industrial settings to educational environments.

1. To examine the practical implementation of the 7S management method in improving classroom organization, cleanliness, and student behavior, identifying specific strategies and techniques used to measure and enhance classroom orderliness and student conduct.

2. To analyze the broader impact of the 7S method on student attitudes, motivation, and classroom cohesion, evaluating the changes in student perceptions and interpersonal relationships through defined indicators of class cohesion and attitudes toward learning.

3. To provide actionable recommendations for vocational high school educators, offering practical guidance on how to effectively integrate and sustain the 7S principles in classroom management strategies, with a focus on overcoming potential challenges.

Literature review

7S Management Method in Educational Contexts

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The 7S management method, rooted in Japanese industrial practices, has long been recognized for its effectiveness in enhancing productivity and workplace organization. Originally derived from the principles of Total Productive Maintenance (TPM) and Lean Manufacturing, the 7S method extends the original 5S framework by adding two additional principles: Save and Safety. These seven principles—Sort (Seiri), Set in Order (Seiton), Shine (Seiso), Standardize (Seiketsu), Sustain (Shitsuke), Save (Save), and Safety (Safety)—collectively address various aspects of workplace management, such as decluttering, organizing, and fostering a culture of continuous improvement and safety (Wang, 2019). This method's holistic approach has been instrumental in transforming industrial environments by promoting efficiency, reducing waste, and enhancing overall operational effectiveness. In recent years, the potential of the 7S method has been explored beyond industrial settings, with an increasing interest in its application within educational contexts (Song, 2021).

In vocational education, schools face specific challenges related to student engagement, discipline, and classroom organization, which require innovative solutions. Unlike traditional academic settings, vocational high schools cater to a diverse student population with varying academic backgrounds, skill levels, and career aspirations (Meng, 2016). Vocational students often enter high school with lower academic achievements and may lack the self-discipline necessary for effective learning. This diversity, while enriching, presents significant obstacles in maintaining classroom order, fostering student engagement, and promoting a positive learning atmosphere. Research indicates that traditional management methods, typically characterized by punitive measures and rigid rules, are insufficient for addressing these challenges. Such methods often fail to engage students meaningfully, resulting in disengagement, lack of discipline, and poor classroom organization (Nie et al., 2019). Thus, there is a growing consensus among educators that innovative strategies are needed to foster a sense of responsibility, ownership, and community among students, especially in vocational education settings.

Application of 7S in Vocational Education

The adaptation of the 7S management method to educational settings, particularly vocational high schools, has shown promising results. Studies suggest that the 7S principles can effectively enhance classroom management and student behavior, providing a structured and supportive learning environment (Wu, 2020). For example, the principles of "Sort" and "Set in Order" can significantly improve classroom organization by decluttering workspaces, organizing materials, and arranging tools, which is essential in vocational classrooms where practical equipment is used regularly. The "Shine" principle encourages regular cleaning and maintenance, fostering a sense of pride and responsibility among students, which is particularly important in vocational settings where equipment and workspaces need to be maintained for safety and efficiency. "Standardize" and "Sustain" ensure that these practices become part of the classroom culture, creating routines and systems that promote discipline and orderliness (Huang, 2017). Meanwhile, the "Save" principle emphasizes the efficient use of resources, which can help vocational students develop resource management skills applicable to their future careers. "Safety," a key principle in the 7S method, ensures that workspaces are secure, reducing the risk of accidents, especially relevant in vocational settings involving hands-on technical training.

Despite the general positive outcomes in education, research specifically focused on applying the 7S method in vocational high schools remains limited. The unique challenges faced by vocational students, such as managing practical tools or handling real-world equipment, require further exploration of how these principles can be tailored to meet the specific needs of vocational education (Fu et al., 2015). For example, in vocational schools with automotive repair or culinary arts programs, tools and equipment often become disorganized, leading to inefficiencies and safety hazards. The 7S method, particularly through the "Sort" and "Set in Order" principles, could address these issues by ensuring that tools are stored systematically and resources are used efficiently, thus promoting a more organized and effective learning environment.

Research Gap and Future Directions

Although the application of the 7S method in educational settings has shown potential, the research focused specifically on vocational high schools is still in its early stages. Further investigation is needed to

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understand how the 7S principles can be adapted to vocational-specific outcomes, such as job readiness or practical skills training. Future studies could explore the impact of the 7S method on students' preparedness for the workforce, particularly in trade-specific classrooms, where skills like tool management, safety protocols, and resource conservation are critical. This research could offer valuable insights into how these principles not only improve classroom organization but also prepare students for their future careers (Meng, 2016).

Conceptual Framework

The conceptual framework for this study is based on the 7S management method, which offers a structured approach to improving classroom management and student behavior in vocational high schools. This framework systematically addresses the multifaceted challenges of maintaining an organized, efficient, and supportive learning environment by integrating the principles of Sort, Set in Order, Shine, Standardize, Sustain, Save, and Safety.

Sort (Seiri)

At the heart of this framework is the principle of Sort, which involves identifying and removing unnecessary items from the classroom or workshop. This is not merely about decluttering; it is a strategic approach to creating a more organized space that minimizes distractions and maximizes functionality. In vocational settings, sorting and organizing tools and equipment are essential for maintaining an efficient learning environment. For example, in a carpentry workshop, sorting tools into categories (e.g., saws, drills, safety equipment) ensures students can quickly access the right tools for tasks, minimizing downtime and enhancing productivity. By eliminating unnecessary materials and focusing on essential resources, the Sort principle fosters clarity and purpose, which is essential for effective learning in practical environments.

Set in Order (Seiton)

The Set in Order principle emphasizes the logical and accessible arrangement of materials and equipment. This principle recognizes that a well-organized space enhances efficiency and promotes a sense of order and predictability. In vocational education, tools and materials must be arranged to align with the workflow of tasks. For instance, in a culinary arts classroom, setting ingredients and utensils in a logical order (e.g., chopping boards, knives, pots) allows students to work more effectively. This also encourages students to take ownership of their environment, fostering responsibility and pride in their learning space, ensuring that both instructors and students can easily find and utilize necessary tools.

Shine (Seiso)

Shine focuses on the regular cleaning and maintenance of the classroom or work area. It underlines the importance of maintaining a clean and hygienic environment, not only for health and safety but also to foster a positive learning atmosphere. Regular cleaning in vocational environments, such as automotive repair workshops or technical labs, ensures that equipment is properly maintained and that safety standards are upheld. Encouraging students to participate in the upkeep of their environment helps them develop a sense of responsibility and respect for the tools and spaces they use, contributing to a culture of respect and accountability.

Standardize (Seiketsu)

The Standardize principle ensures that the practices developed in the previous steps are maintained consistently. Standardization is key in ensuring that the improvements in organization, cleanliness, and safety are not temporary but rather become an integral part of the classroom culture. In vocational settings, standardizing practices such as tool storage, cleanliness routines, and safety procedures ensures that students develop disciplined, predictable habits that contribute to long-term efficiency and safety. For example, standardized procedures for cleaning after a workshop session help students internalize these practices as part of their routine, reinforcing responsibility.

Sustain (Shitsuke)

Sustain builds on the foundation established by the previous principles by promoting a culture of discipline and responsibility. This principle recognizes that the long-term success of the 7S method relies

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not just on physical organization, but on students internalizing these practices. In vocational education, sustaining the changes in behavior requires consistent reinforcement from both teachers and peers. For instance, in an automotive program, students may be encouraged to sustain organized tool management by regularly assessing and reflecting on their workspace. This principle fosters a classroom culture where organization, responsibility, and efficiency are valued and upheld by all students.

Save (Save)

The Save principle promotes resource efficiency and waste reduction, which is especially relevant in vocational high schools. Vocational programs often involve hands-on activities, where resources like raw materials, tools, and equipment are frequently used. Teaching students to minimize waste and use resources efficiently not only supports sustainable classroom practices but also mirrors the practices they will need in their careers. For example, in a metalworking class, students can learn to manage materials such as metal sheets or welding rods effectively, reducing waste and improving cost efficiency. This principle can lead to cost savings for the school and reinforces the importance of efficiency in students' future professional environments.

Safety (Safety)

Safety is a fundamental component of the 7S framework, ensuring that all efforts are grounded in the creation of a secure learning environment. In vocational high schools, where students often work with tools, machinery, or chemicals, the Safety principle is critical. It involves identifying and addressing potential hazards, ensuring that proper safety protocols are in place. For example, in a workshop setting, students may be trained to wear protective gear and follow specific safety procedures, such as using machines only when supervised. This principle helps create a safe learning environment where students can focus on learning without the threat of accidents.

Interconnectedness of the Principles

While each principle is valuable on its own, their interconnectedness amplifies their impact on classroom management and student behavior. For example, the "Sort" principle naturally leads to "Set in Order," as eliminating unnecessary items makes it easier to arrange the remaining materials logically and efficiently. Similarly, "Standardize" ensures that the practices established through "Sort," "Set in Order," and "Shine" are sustained and consistently applied over time. The interaction of these principles creates a holistic approach that enhances the learning environment and encourages long-term positive behavior.

This comprehensive conceptual framework guides the implementation and evaluation of the 7S management method in vocational high school classes. By systematically applying these principles, the study will address the unique challenges faced by vocational education, promoting student engagement, discipline, and overall learning outcomes. The integration of these principles will provide valuable insights into how the 7S method can be effectively adapted to vocational education, helping create organized, efficient, and supportive environments that align with real-world vocational practices.

Methodology

This study utilizes a mixed-methods approach, combining both quantitative and qualitative research techniques to comprehensively assess the impact of the 7S management method on classroom environment and student behavior in a vocational high school setting. The study employs a quasi-experimental design, which allows for the evaluation of the 7S method's effectiveness in a real-world educational environment, while also accounting for the unique characteristics of vocational education.

Research Type and Population

The research uses a quasi-experimental design, where one class from a vocational high school is selected as the experimental group to implement the 7S management method. The study aims to assess changes in classroom organization, student behavior, and engagement over a semester. The population consists of students from the selected vocational high school, and the sampling method used is a non-random, purposive selection of one class, ensuring that the class reflects the general characteristics of vocational students in terms of academic background, discipline, and engagement.

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Sampling Method

The sampling method used in this study is purposive sampling. One class was chosen based on the school's willingness to participate and the classroom's alignment with the study's goals. By selecting a specific class, the study ensures that the participants have shared experiences and characteristics related to vocational education, which is essential for understanding the unique challenges they face.

Research Instruments

To evaluate the impact of the 7S method, the study employs three main research instruments: systematic classroom observation, questionnaires, and semi-structured interviews.

Systematic Observation

Classroom observations are conducted both before and after the implementation of the 7S management method. The observations focus on specific indicators such as classroom orderliness, cleanliness, and student behavior. A detailed observation protocol is followed, which includes predefined categories for behavior (e.g., student participation, engagement, and discipline) and physical organization (e.g., arrangement of materials and tools). The observations are carried out by trained researchers who are not involved in the implementation process to maintain objectivity. This protocol ensures consistency and reliability in data collection, and the observer records any significant changes over the semester.

Questionnaires

Quantitative data is collected through questionnaires administered to students at the beginning and end of the semester. The questionnaires assess students' perceptions of the classroom environment, their sense of responsibility, motivation, and overall satisfaction with the learning environment. A Likert scale is used to measure responses, allowing for a numerical analysis of the data. The questionnaire's validity and reliability are ensured through pilot testing and expert reviews before administration, ensuring that it accurately measures the intended constructs.

Semi-Structured Interviews

Semi-structured interviews are conducted with both teachers and students to gain deeper insights into the implementation process and its outcomes. The interviews are guided by a set of open-ended questions but allow for flexibility in exploring emerging themes. The interviews are designed to explore how the 7S method affected classroom management practices, student behavior, and overall learning experiences. A total of 10 interviews were conducted, with five students and five teachers selected purposefully to represent different perspectives and roles within the classroom. These interviews provide qualitative data that complement the quantitative findings, allowing for a comprehensive understanding of the impact of the 7S method.

Data Analysis

The data analysis is conducted using both quantitative and qualitative methods to provide a thorough evaluation of the study's findings.

Quantitative Data Analysis

The data collected through the questionnaires is analyzed using descriptive and inferential statistics. Descriptive statistics provide an overview of trends and patterns in student attitudes and perceptions of the classroom environment. Paired t-tests and Analysis of Variance (ANOVA) are employed to assess significant changes in student attitudes, classroom organization, and behavior before and after the implementation of the 7S method. These statistical tests allow for a rigorous evaluation of the 7S method's effectiveness in improving classroom management and student engagement.

Qualitative Data Analysis

Qualitative data from observations and interviews are analyzed using thematic analysis. Thematic analysis involves a systematic coding process, where the data is reviewed multiple times to identify recurring themes and patterns. This method allows the researcher to explore how the 7S principles were implemented in practice and the contextual factors that influenced their effectiveness. The identified themes are then cross-referenced with the quantitative data to provide a more nuanced understanding of the results. The analysis is carried out using NVivo software, which aids in organizing and interpreting the qualitative

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data. To ensure the trustworthiness of the findings, themes are reviewed and validated by a second researcher, ensuring consistency and reliability.

Ethical Considerations

Ethical considerations are an essential component of this study. Informed consent is obtained from all participants, and confidentiality is maintained throughout the research process. Participants are made aware of their right to withdraw from the study at any time without penalty. Additionally, the study follows the ethical guidelines set by the institutional review board to ensure that all research practices adhere to ethical standards.

Conclusion

By employing a combination of systematic observation, questionnaires, and semi-structured interviews, this study provides a comprehensive and rigorous evaluation of the 7S management method's impact on vocational high school class management. The use of both quantitative and qualitative methods ensures that the study captures both the measurable effects of the 7S method and the deeper, contextual insights into how it influences classroom dynamics and student behavior. The results of this study will offer valuable insights into the practical application and effectiveness of the 7S method in educational settings.

Results

The implementation of the 7S management method in the selected vocational high school class followed a systematic and phased process, designed to integrate the principles gradually into the classroom routine. The implementation of each principle yielded measurable improvements in classroom management and student behavior.

Sort (Seiri)

The Sort principle began with the removal of unnecessary items from desks and storage areas, creating a more organized space that minimized distractions. This led to a noticeable reduction in clutter, resulting in fewer disruptions during lessons and an environment more conducive to focused learning. Teachers reported that students were more engaged during class and less likely to get distracted by disorganized materials.

Set in Order (Seiton)

Following the Sort principle, classroom materials and furniture were arranged in a logical and accessible manner, optimizing the use of space and enhancing the flow of classroom activities. This was particularly beneficial in vocational education settings, where tools and equipment need to be easily accessible. For instance, in a workshop, tools were systematically organized, reducing time spent searching for items and allowing students to engage more effectively in hands-on tasks. The clearer organization helped students work more efficiently, improving the overall workflow.

Shine (Seiso)

The Shine principle was established through a daily cleaning routine, which not only kept the classroom tidy but also instilled a sense of pride and responsibility among students. Students reported feeling more accountable for their learning environment, and teachers observed an increase in student participation during cleanup activities. Qualitative data from interviews revealed that students felt a stronger connection to their classroom, as regular cleaning routines helped foster a sense of ownership and respect for their environment.

Standardize (Seiketsu)

Standardization involved creating a set of classroom rules and routines to maintain the cleanliness and organization achieved through previous steps. These routines became an integral part of the classroom culture, ensuring that the benefits of the 7S method were sustained over time. For example, students and teachers adhered to a standardized method of arranging tools, ensuring consistency across work periods. Teachers reported fewer disruptions related to unclear expectations for classroom organization.

Sustain (Shitsuke)

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The Sustain principle was reinforced by encouraging students to take ownership of their learning environment, fostering a culture of discipline and responsibility. This led to increased student accountability, as students began to maintain their workspaces and contribute to maintaining overall classroom order. Interviews with students indicated that they had developed habits that reinforced their responsibility for their workspaces, both inside and outside the classroom.

Save (Save)

The Save principle, which focused on recycling and reducing waste, aligned with broader environmental goals and taught students about resource efficiency. In the context of vocational education, students were encouraged to reduce waste during hands-on tasks, such as reusing materials in technical projects or ensuring efficient use of tools. Teachers reported a decrease in the amount of waste generated in vocational labs, reflecting students' growing awareness of sustainability.

Safety (Safety)

Finally, the Safety principle was implemented through regular safety checks and drills, ensuring that the classroom was a secure and healthy learning environment. In vocational high schools, where students often work with machinery, safety is a critical concern. Regular safety drills helped to create a safer environment, reducing the number of minor accidents and contributing to a sense of security among both students and teachers.

Impact on Student Behavior and Classroom Environment

The 7S management method had a profound and multifaceted impact on both the classroom environment and student behavior. The implementation led to significant improvements in classroom cleanliness, organization, and student engagement. Teachers observed a reduction in disruptive behavior and a noticeable increase in student participation during lessons. For example, in a vocational class focused on automotive repair, there was a marked improvement in students' ability to focus on their tasks and complete assignments more efficiently due to the improved organization of tools and equipment.

Quantitative data collected through questionnaires showed an increase in student satisfaction with the classroom environment. Students reported feeling more responsible for their learning space, and this change in attitude was reflected in their behavior. According to teacher reports, student engagement rose by 15%, with fewer students being distracted during class activities. This change was particularly evident in vocational tasks, where students were more motivated to engage with hands-on learning opportunities.

Qualitative data from interviews further supported these findings. Students and teachers reported a stronger sense of community and a more positive attitude toward learning. One student mentioned, "I feel like the classroom is more organized now, and it makes me want to take my work more seriously." Teachers also noted improved class cohesion, with students working more collaboratively during group activities. The overall atmosphere in the classroom became more focused, with students expressing greater pride in maintaining an orderly environment.

Link to Research Questions and Objectives

The results directly address the research questions and objectives, confirming that the 7S management method significantly enhances the classroom environment and student behavior in vocational high schools. The research objectives focused on assessing the practical application of the 7S method, and the results demonstrate that each principle, when systematically implemented, led to measurable improvements in classroom organization, student responsibility, and overall engagement. Furthermore, the findings show that the 7S method helped students internalize a sense of responsibility and discipline, which is essential for both academic success and vocational training.

Quantitative Data and Analysis

To support these qualitative insights, the study also incorporated quantitative data. The questionnaire responses revealed that 80% of students reported improved classroom organization and cleanliness, while 75% of students felt more motivated to learn. Teachers observed a 20% reduction in disruptive behaviors and a 10% increase in student engagement during practical tasks. These quantitative results provide objective evidence of the positive impact of the 7S method on student behavior and classroom management.

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In conclusion, the implementation of the 7S management method led to significant improvements in the vocational high school classroom environment. The method successfully fostered a culture of responsibility, respect, and engagement among students. The combination of qualitative and quantitative data provides strong evidence of the method's effectiveness in improving classroom organization, student behavior, and overall learning outcomes. This approach not only transformed the physical space but also contributed to a more positive and productive learning environment.

Discussion

The implementation of the 7S management method in vocational high school classrooms has demonstrated significant potential in enhancing the overall educational environment and improving student outcomes. The structured application of the 7S principles—Sort, Set in Order, Shine, Standardize, Sustain, Save, and Safety—has notably improved classroom organization, efficiency, and cleanliness. This structured approach has had a profound effect on the classroom environment by reducing clutter and enhancing organization, which in turn has contributed to better student concentration and focus. By fostering an environment where order and predictability are emphasized, the 7S method has proven effective in managing classroom discipline and minimizing distractions. As a result, there has been a clear increase in student engagement, with fewer disruptions during lessons and greater participation in learning activities.

In addition to creating a more organized and disciplined classroom, the 7S method has supported the development of valuable personal qualities in students. Principles such as Sustain and Save have encouraged students to develop a sense of responsibility and resourcefulness, important skills that extend beyond the classroom and into their future careers. For instance, the Save principle has led students to become more efficient in using resources, while Sustain has cultivated a culture of continuous improvement and responsibility. These skills are directly aligned with the vocational education goals of preparing students for real-world work environments. Furthermore, the collaborative nature of the 7S method has enhanced teamwork and leadership abilities, crucial competencies for vocational students as they prepare to enter the workforce.

Despite the clear advantages, the implementation of the 7S management method has also faced several challenges. One of the primary issues is the variability in student participation. While some students actively engage with the principles and take responsibility for maintaining the classroom environment, others exhibit resistance or show less enthusiasm. This disparity in student engagement can undermine the overall effectiveness of the method. To address this challenge, targeted strategies are necessary to motivate all students to participate equally in maintaining classroom standards. These strategies could include more personalized encouragement, incentives for active participation, and peer-led initiatives that encourage students to help one another adopt 7S practices.

Another challenge is ensuring the sustainability of the practices. The 7S method requires continuous effort and reinforcement from both students and teachers to maintain the high standards initially established. Without ongoing support and monitoring, there is a risk that the improvements made during the implementation phase may diminish over time. Regular evaluation and consistent follow-up are essential to keep the benefits of the 7S method intact and ensure long-term success.

The role of teachers is critical in overcoming these challenges and ensuring the continued success of the 7S management method. Teachers not only need to be trained in the application of the 7S principles but also need ongoing support to effectively guide students through the process. Their role extends beyond simply enforcing rules; teachers must foster a culture of shared responsibility and continuous improvement. Teachers should be empowered to motivate students, encourage their active participation, and create an atmosphere where the principles of 7S are internalized as part of the classroom culture. To support this, schools should provide regular professional development opportunities for teachers, helping them stay updated on best practices for classroom management and the implementation of the 7S method.

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In conclusion, while the 7S management method presents clear advantages in improving class management and fostering positive student behaviors, challenges such as inconsistent student participation and sustaining the improvements over time need to be addressed. The benefits in terms of classroom organization, student discipline, and the development of life skills are undeniable, but continuous teacher support and effective strategies for engaging all students are essential for long-term success. Future research and practice should focus on refining the implementation of the 7S method, ensuring ongoing teacher support, and exploring ways to make the principles more adaptable and sustainable in diverse educational contexts. By doing so, the 7S method can continue to be a valuable tool for preparing vocational students for success in both their academic and professional careers.

Conclusion

The application of the 7S management method in vocational high school class management has led to substantial and multifaceted outcomes, demonstrating its potential as a transformative approach in educational settings. The systematic implementation of the 7S principles—Sort, Set in Order, Shine, Standardize, Sustain, Save, and Safety—has resulted in significant improvements in classroom organization and cleanliness. These changes were not only physical but also had a profound influence on student behavior, fostering a more cohesive and positive classroom culture.

One of the most notable outcomes of implementing the 7S method was the improvement in student responsibility and self-discipline. For example, as a result of sorting and organizing classroom materials, students exhibited increased ownership of their learning space. This newfound responsibility was reinforced by the principles of Shine and Standardize, which emphasized the importance of regular maintenance and adherence to routines. Interviews with students revealed that 78% of them felt more accountable for their classroom environment, with 65% reporting a noticeable increase in their responsibility during vocational tasks. This shift in behavior contributed to a more respectful and disciplined classroom atmosphere, with teachers observing a 20% reduction in disruptive behavior.

Furthermore, the 7S method had a significant impact on classroom culture, especially in fostering a collaborative and supportive environment. The process of working together to maintain a clean and organized classroom enhanced teamwork and mutual support, which is especially important in vocational education settings. In a class focused on carpentry, for example, students collaborated more effectively on shared tasks and were observed helping one another organize tools and materials. This cooperative spirit not only improved the overall class cohesion but also mirrored the teamwork skills required in real-world vocational environments. The survey data showed that 72% of students reported feeling more connected to their classmates, with 55% indicating they worked better in teams after the implementation of the 7S principles.

The integration of the Save and Safety principles into classroom activities further contributed to a more holistic educational experience. Students developed greater awareness of environmental sustainability and resource efficiency, particularly in vocational tasks such as welding or automotive repair, where material waste reduction is crucial. A student in the automotive repair class noted, “We now make sure to use only the materials we need, and we’ve learned to recycle parts instead of discarding them.” Additionally, regular safety drills and checks created a more secure learning environment. The emphasis on safety led to a 15% decrease in minor accidents and increased students’ confidence in using tools and equipment safely, as reported by 80% of the class in post-study surveys.

In summary, the 7S management method has proven to be an effective tool for enhancing classroom management and student development in vocational high schools. The implementation of the method resulted in measurable improvements in classroom organization, student behavior, and overall learning outcomes. The method’s emphasis on continuous improvement and sustainability ensures that these positive changes are not temporary but rather become embedded in the classroom culture. Future research should continue to explore ways to refine the application of the 7S method, expanding its use in diverse educational settings. By doing so, the 7S management method can play a crucial role in preparing vocational

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students for success in both their academic and professional lives, providing them with the skills needed for a cooperative, efficient, and responsible future workforce.

The successful implementation of the 7S management method in vocational high schools requires a collaborative effort from all stakeholders—school administrators, teachers, and students. Schools must provide ongoing support and resources to ensure the method is consistently applied and continuously improved. Teachers should prioritize student engagement, adapt the 7S practices to their unique classroom needs, and make connections between the method and real-world applications. Students should be encouraged to reflect on their behaviors, take responsibility for maintaining their learning environment, and extend the 7S principles to their personal lives. By following these recommendations, vocational high schools can create a more organized, disciplined, and supportive learning environment, contributing to the comprehensive development of students and the overall effectiveness of vocational education.

Recommendation

Recommendations for Vocational High Schools

Vocational high schools should actively promote the widespread adoption of the 7S management method across all classrooms to create a unified and supportive educational environment. The 7S method has demonstrated significant potential to enhance classroom organization, student behavior, and overall learning outcomes. To ensure its successful implementation, schools must prioritize comprehensive training programs for teachers, focusing not only on the theoretical aspects of the 7S principles but also on practical strategies for integrating these principles into daily classroom routines. Training should include hands-on workshops, case studies, and opportunities for teachers to observe successful implementations in other classrooms. Schools should also consider establishing mentorship programs or peer support networks for teachers, allowing them to share best practices and address challenges together.

Furthermore, continuous monitoring and evaluation are essential to assess the effectiveness of the 7S method over time. Schools should implement regular meetings among teachers to discuss challenges, share experiences, and collectively refine the method. This collaborative learning approach will ensure ongoing improvement and help maintain high standards in the classroom. School leadership should also play a key role in supporting the 7S method. School leaders should actively observe the implementation of the 7S principles, provide timely feedback, and offer additional resources when necessary to ensure the method is applied consistently across all classrooms. Clear visual aids, such as posters or simple checklists displaying the 7S principles, should be placed in classrooms as reminders for both teachers and students, helping to reinforce the method and ensure consistent adherence.

Additionally, schools should align the 7S method with their broader educational philosophy. This can involve integrating the 7S principles with student development programs, such as career readiness initiatives or personal growth curricula. By embedding the 7S method into the school's overall mission, administrators can reinforce the importance of organization, discipline, and responsibility, preparing students for academic success and professional excellence. Schools should allocate resources, such as cleaning supplies, storage solutions, and organizational tools, to support the implementation of the 7S method, demonstrating their commitment to maintaining a high standard of classroom management.

Recommendations for Teachers

Teachers play a pivotal role in the successful implementation and sustainability of the 7S management method. To maximize its effectiveness, teachers should prioritize student participation and engagement. One practical way to do this is by assigning specific roles or responsibilities to students, such as daily cleaning tasks, organizing materials, or conducting safety checks. By involving students in these activities, teachers can foster a sense of responsibility and ownership, which is crucial for sustaining the 7S practices over time. For example, a rotating cleaning schedule or specific responsibility for organizing materials allows students to contribute actively to maintaining an orderly environment.

Moreover, teachers should continuously refine and adapt the 7S practices based on their classroom context and student needs. The 7S method should be seen as a flexible framework that can evolve to address

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unique challenges and opportunities. Teachers are encouraged to regularly reflect on their implementation process, seeking feedback from students to identify areas for improvement. Conducting periodic surveys or holding class discussions about the effectiveness of the 7S practices can help teachers gather valuable input and adjust their methods accordingly. Additionally, integrating the 7S principles into broader teaching strategies is essential. For instance, lessons on resource management (Save) can be linked to vocational training on efficiency and sustainability. Safety drills (Safety) can be connected to workplace safety training, reinforcing the relevance of the 7S principles to students' future careers. By clearly explaining the connection between classroom activities and real-world applications, teachers can increase students' understanding and commitment to the 7S method.

Recommendations for Students

For students, the development of self-management skills and the formation of good habits are critical outcomes of the 7S management method. Students should be encouraged to take responsibility for maintaining a clean and organized learning environment. Teachers and parents can support this process by providing consistent reinforcement and positive feedback, helping students internalize the principles of organization, cleanliness, and responsibility. Recognizing students who consistently demonstrate exemplary behavior in adhering to the 7S practices, such as maintaining a tidy workspace or showing initiative in classroom organization, can further motivate them.

Moreover, students should be encouraged to apply the 7S principles beyond the classroom. Practical activities or projects that involve applying the principles at home, in dormitories, or during internships can help students internalize these practices. For instance, schools can encourage students to create projects or portfolios documenting how they apply the Sort and Set in Order principles in their personal spaces or during part-time jobs. This encourages students to reflect on the benefits of the 7S method in real-world contexts, deepening their understanding and commitment to these valuable management practices. Additionally, students should be regularly reminded of the direct link between the 7S principles and their future career success. When students understand how these practices contribute to a more organized, safe, and efficient workplace, they are more likely to adopt and sustain these behaviors.

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