

Assessing Employee Awareness, Training, and Compliance with Food Safety and Hygiene Practices in Luxury Hotels of India

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Abstract: Food safety and hygiene practices are critical determinants of service quality, customer satisfaction, and public health within the hospitality sector. Luxury hotels, in particular, are expected to uphold the highest standards of food safety due to their premium positioning and global clientele. This study investigates employee awareness, training effectiveness, and compliance with food safety and hygiene practices in luxury hotels in India. Using a structured questionnaire administered to food and beverage employees across selected five-star hotels, the study evaluates key dimensions such as knowledge of hygiene standards, frequency and quality of training, and adherence to operational protocols. The findings reveal that while employees generally demonstrate a satisfactory level of awareness, gaps persist in consistent compliance and practical application of knowledge. Training programs significantly influence employee behavior, but organizational support and monitoring mechanisms play a crucial mediating role. The study contributes to the literature by offering empirical insights and practical recommendations for strengthening food safety culture in luxury hospitality establishments.

Introduction: The hospitality industry plays a vital role in economic development, tourism growth, and employment generation, particularly in emerging economies like India. Within this sector, luxury hotels represent the pinnacle of service excellence, offering high-quality experiences to discerning customers. However, maintaining such standards extends beyond aesthetics and service delivery to include rigorous adherence to food safety and hygiene practices. Foodborne illnesses, contamination risks, and hygiene lapses can severely damage a hotel's reputation and lead to legal consequences. Therefore, employee awareness and compliance with food safety protocols are of paramount importance. Employees working in food production and service areas act as the primary custodians of hygiene practices. Their knowledge, attitude, and behavior directly influence the effectiveness of food safety systems. Despite the implementation of standardized systems such as HACCP (Hazard Analysis and Critical Control Points), the success of these frameworks largely depends on employee engagement and training. In the Indian context, where workforce diversity and varying educational backgrounds exist, ensuring uniform understanding and compliance becomes a challenge. This study aims to bridge this gap by assessing the level of employee awareness, the effectiveness of training programs, and the extent of compliance with food safety and hygiene practices in luxury hotels.

Literature Review: Food safety and hygiene practices constitute a fundamental aspect of quality assurance in the hospitality industry, particularly in luxury hotels where service expectations and international standards are significantly elevated. The growing incidence of foodborne illnesses globally has intensified the need for stringent food safety systems and effective employee engagement in hygiene practices. According to the World Health Organization, unsafe food containing harmful bacteria, viruses, or chemical substances causes more than 600 million cases of foodborne diseases annually, highlighting the critical importance of maintaining strict hygiene standards in foodservice

establishments (WHO, 2022). In this context, employees play a pivotal role as frontline implementers of food safety protocols, and their awareness, training, and compliance directly influence operational effectiveness. Employee awareness is widely recognized as a foundational element in ensuring food safety. Awareness encompasses knowledge of hygiene principles such as personal cleanliness, cross-contamination prevention, temperature control, and sanitation procedures. Studies have demonstrated that employees with higher levels of food safety knowledge are more likely to engage in safe food handling practices (Bas et al., 2006). However, the relationship between knowledge and behavior is not always linear. Research indicates that although employees may possess theoretical knowledge, this does not necessarily translate into consistent practical application due to factors such as complacency, time constraints, and lack of supervision (Clayton & Griffith, 2008). In the Indian hospitality context, workforce diversity in terms of education, language, and cultural background further complicates the uniform dissemination of food safety knowledge. Employees often rely on informal learning and on-the-job experience, which may lead to gaps in standardized practices. Moreover, studies suggest that employees tend to underestimate the risks associated with improper food handling, particularly when immediate consequences are not evident (Green & Selman, 2005). Therefore, enhancing awareness requires not only knowledge dissemination but also behavioral reinforcement and continuous education. Training is a critical intervention for improving employee competence in food safety and hygiene practices. Effective training programs provide employees with both theoretical knowledge and practical skills necessary for safe food handling. According to Food and Agriculture Organization, continuous training and capacity-building initiatives are essential for strengthening food safety systems in the hospitality sector (FAO, 2020). Training programs that incorporate interactive methods, such as demonstrations, simulations, and real-time feedback, have been shown to significantly improve knowledge retention and application. Empirical studies reveal that regular and structured training enhances employee confidence and reduces the likelihood of hygiene violations (Seaman & Eves, 2010). However, the effectiveness of training

Employees who receive regular training are more likely to translate their knowledge into practice, thereby improving overall compliance. However, this relationship is also moderated by organizational factors such as leadership, communication, and work environment. For instance, employees are more likely to comply with food safety practices when they perceive strong managerial support and clear communication of expectations. Conversely, lack of motivation and inadequate incentives can hinder compliance despite high levels of awareness and training. Despite extensive research on food safety in the hospitality industry, limited studies have specifically focused on luxury hotels in India, where operational standards and customer expectations are significantly higher. Furthermore, existing studies often examine awareness, training, and compliance in isolation, without exploring their interrelationships comprehensively. There is also a lack of empirical evidence on how organizational factors influence these dimensions in the context of luxury hospitality.

depends on several factors, including frequency, content relevance, and organizational support.



Figure 1. Role of Training in Food Safety

Figure 1. Shows the relationship between awareness, training, and compliance has been extensively explored in food safety research. Awareness provides the cognitive foundation, training enhances skills and competencies, and compliance reflects the actual behavioral outcome. Studies indicate that training acts as a mediating factor that strengthens the relationship between awareness and compliance (Soon et al., 2012). One-time training sessions are often insufficient, as knowledge tends to decay over time without reinforcement. Furthermore, training must be tailored to the specific roles and responsibilities of employees to ensure relevance and practicality. In luxury hotels, where operations are complex and service standards are high, training programs must be comprehensive and aligned with international best practices such as HACCP and ISO 22000 standards.

Despite this, research indicates that inconsistencies in training quality and implementation remain a challenge, particularly in regions where staff turnover is high (Roberts et al., 2008). Consequently, continuous professional development and periodic evaluation of training effectiveness are necessary to maintain high standards of food safety. Compliance refers to the extent to which employees adhere to established food safety protocols and standards during their daily operations. While awareness and training provide the necessary foundation, compliance is influenced by behavioral, organizational, and environmental factors. Studies have shown that employees often deviate from standard procedures due to workload pressures, time constraints, and perceived inconvenience (Griffith et al., 2010).



Figure 2. Safety and Hygiene Practices in a Hotel

Figure 2 denotes that the key determinant of compliance is the presence of a strong food safety culture within the organization. Food safety culture encompasses shared values, beliefs, and practices that prioritize hygiene and safety at all levels of the organization. Management commitment plays a crucial role in fostering such a culture by setting clear expectations, providing resources, and enforcing accountability. Research suggests that organizations with a positive food safety culture experience higher levels of employee compliance and reduced incidence of food safety violations (Yiannas, 2009). In luxury hotels, compliance is further influenced by the need to balance operational efficiency with strict hygiene standards. During peak service periods, employees may prioritize speed over adherence to protocols, leading to potential lapses in hygiene practices. Additionally, inadequate supervision and lack of monitoring mechanisms can exacerbate non-compliance. Therefore, implementing robust monitoring systems, such as regular audits and performance evaluations, is essential for ensuring consistent adherence to food safety standards.

Materials & Methods: This study adopts a quantitative research approach to examine employee exposure to food safety and hygiene practices. Data were collected using a structured questionnaire designed based on established food safety standards and previous research. The questionnaire comprised three main sections: employee awareness, training effectiveness, and compliance behavior. Responses were measured using a five-point Likert scale ranging from strongly disagree to strongly agree.

The sample consisted of employees working in food production and service departments of selected luxury hotels in major Indian cities. A purposive sampling technique was employed to ensure that respondents had direct involvement in food handling activities. A total of 250 questionnaires were distributed, out of which 210 valid responses were obtained and analyzed. Data analysis was conducted using statistical tools such as descriptive statistics, correlation analysis, and regression analysis. These techniques were used to identify patterns, relationships, and the impact of training and awareness on compliance levels.

Results and Discussion

The findings of the study indicate that employees in luxury hotels possess a moderate to high level of awareness regarding food safety and hygiene practices. Most respondents demonstrated familiarity with basic hygiene principles, including hand hygiene, use of protective equipment, and safe food handling procedures. However, certain areas, such as advanced contamination control and critical temperature monitoring, showed comparatively lower levels of understanding. Training programs were found to play a significant role in enhancing employee awareness and shaping positive attitudes toward food safety. Employees who received regular training exhibited higher levels of knowledge and confidence in performing hygiene-related tasks. Nevertheless, the study revealed that training frequency and practical application varied across hotels, leading to inconsistencies in outcomes.

Compliance with food safety practices was generally satisfactory but not uniform. While employees reported adherence to standard procedures, observational insights and self-reported data suggested occasional lapses, particularly during peak operational hours. Factors such as workload, time pressure, and lack of supervision contributed to these deviations. The regression analysis confirmed that both awareness and training have a positive and significant impact on compliance, with training emerging as a stronger predictor. The discussion highlights that while knowledge and training are essential, they must be supported by a robust organizational culture that prioritizes food safety. Management commitment, regular monitoring, and reinforcement mechanisms are crucial for sustaining high levels of compliance.

Conclusion

This study underscores the importance of employee awareness, training, and compliance in ensuring effective food safety and hygiene practices in luxury hotels in India. The findings reveal that although employees possess adequate knowledge, gaps in consistent application and compliance persist. Training programs significantly enhance employee performance, but their effectiveness depends on regularity, practical orientation, and organizational support. To strengthen food safety practices, luxury hotels must adopt a holistic approach that integrates continuous training, strict supervision, and a strong food safety culture. Investing in employee development and fostering accountability can lead to improved compliance and reduced risk of foodborne incidents. The study contributes to both academic literature and industry practice by providing actionable insights for enhancing food safety management in the hospitality sector.

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