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**Summary**

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## Summary

The aviation industry is among the industries that require consideration in risk assessment. Therefore, the causal model is a scientific archetypal indicating causal associations within a person scheme or population. Therefore, the causality model enables interpretations concerning causal relations from statistical data, thus can educate individuals with good insights regarding epistemology of action. Wang & Mueller (2017) stated that the model is useful in the aviation industry because it unites managerial and technical components in ensuring aviation safety is efficiently developed.

The Reason's swiss cheese model is a risk evaluation and risk management utilized in different aviation industries, computer security and healthcare. Larouzee & Le Coze (2020) claimed that the swiss cheese model was proposed by James Reason to elucidate the incidence of system failures. The aviation industry will utilize this model in analyzing the failures in four different conditions, including the company influences, the requirements for unsafe events, dangerous managements and insecure events.

The chain of events model focuses on the idea that a chain will fail at its weakest link. The aviation industry can use this model in explaining the occurrence and their action because it usually takes the procedures of associating an event to a chain of occurrences. Therefore, within chain of occurrences, the weak connection is identified by looking at what resulted in the event's occurrence. The process then goes on in realizing the human mistakes and pilot errors.

Realizing the root cause of an accident is essential in preventing the fatality rate of an incidence. A cause should take into considerations as many events as possible in an accident.

Thus, the most efficient accident prevention tactic should consider all the connections in the chain of events that results in accidents.

**References**

Larouzee, J., & Le Coze, J. C. (2020). Good and bad reasons: The Swiss cheese model and its critics. *Safety Science*, *126*, 104660.

Wang, J., & Mueller, K. (2017, October). Visual causality analysis made practical. In *2017 IEEE Conference on Visual Analytics Science and Technology (VAST)* (pp. 151-161). IEEE.

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