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**ABSTRACT**

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A series of bombs ripped through churches and hotels in Sri Lanka on Easter Sunday, killing at least 290 people and injuring hundreds. Most of the attacks were conducted by using Improvised Explosive Devices (IED) in unconventional manner. It was identified that those terrorist had used modern tactics, which were new to the Sri Lanka Air Force Explosive Ordinary Disposal (EOD) personnel. Therefore identification of the gap between modern terrorist tactics and challenges for the EOD technicians were highlighted. As such, data was collected through personnel those who are in field of EOD at Sri Lanka Air Force and analysis conducted by using mixed method. Further, data collected through the field expertise and the same was embedded in the study. Further, study significantly proved that confidence level of the EOD personnel is vital for handle related threat and enhanced confidence of the EOD operators. It was analysed through the EOD training, EOD equipment and EOD experience. The study revealed that the knowledge on modern terrorist tactics of the EOD personnel were minimum and requirement of reviewing of traditional EOD training processes were realized. Through this dissertation the researcher identified future threats comes from the modern terrorism on IED's and able to find out the appropriate remedies in mitigating the same.

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