

# **Abstract**

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## **IMPROVING CONSTRUCTION SAFETY PERFORMANCE FOR EQUIPMENT USING SAFEQUIP**

Accidents occur on construction sites around the world despite various occupational safety and health laws, rules, and regulations. In addition, the traditional method of improving safety performance in construction firms is to implement an effective safety program. For this purpose, a computer model (SAFEQUIP) is designed to assist persons to interact with the construction equipment safely. SAFEQUIP is mainly targeted to give easy and quick reports for engineers and equipment operators in the area of equipment safety. SAFEQUIP provides the engineers and operators with general health and safety precautions, as well as detailed safety recommendations for the most common equipment in the construction field such as excavators, trucks, loaders, dozers, compactors and scrapers.