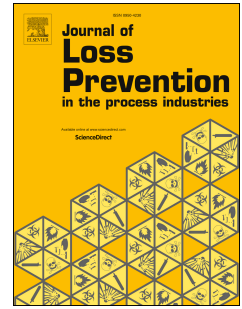


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Developing a risk-based inspection practices maturity model for Malaysian industries

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DEVELOPING A RISK-BASED INSPECTION PRACTICES MATURITY MODEL FOR MALAYSIAN INDUSTRIES

KEYWORDS

Risk-based inspection; Maturity Model; Safety Culture; Safety Management Systems

1. INTRODUCTION

Mettler (2011) describes maturity as an evolutionary progress in the demonstration of a specific ability, or the accomplishment of a target from an initial to a desired or normally occurring end stage. Maturity models in the maturity assessment model literature are often one-dimensional, focusing on process maturity (Paulk et al., 1993; Fraser and Vaishnavi, 1997), object maturity (Mettler, 2011), or people capability (Nonaka, 1994). Practitioners and academics have developed several maturity assessment models. The maturity model concept is a novel research innovation in the discipline of safety management and had been integrated into safety culture development in a number of “high risk” industries such as offshore platforms (Fleming, 2000 and Hudson, 2007), aviation (Gordon et al., 2007), railways (Farrington-Darby et al., 2005, Clarke, 1998 and Kyriakidis & Hitch, 2012), mining (Foster & Hault, 2013), and petrochemicals (Lardner et al., 2000 and A.P.G Filho et al., 2010).

The maturity model concept encompasses a broad swath of features and it is thus vital to explore the potential utility of the model in safety improvements or safety related areas. These models originated either from recognized quality models, organizational development, or the software industry. Conversely, in reference to the safety management discipline, this concept was prominently featured by Fleming and Larder in 2000, followed by Fleming (2000), Hudson (2001) and the University of Queensland (2008). The maturity model concept appears to be appropriate to safety development and has been designed to evaluate the quality and standards of an organization safety culture, since safety culture embodies the value placed on safety and the

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