

Industrialisation and its Impact on Operations Management Development in South Africa: A Guess into the Fourth Industrial Revolution

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Abstract

The first industrial revolution (INDUSTRY 1.0) brought mechanization, steam power and the weaving loom. Followed by the second industrial revolution (INDUSTRY 2.0) introducing mass production, assemble lines and electrical energy. Subsequently the third industrial revolution (INDUSTRY 3.0) which developed automation, computers and electronics. More recently the forth industrial revolution (INDUSTRY 4.0) the advent of cyber physical systems, internet of things and networks. This study identified the factors of INDUDTRY 4.0 from Simulation, Autonomous Robots, Big Data, Augmented Reality, Additive Manufacturing, Cloud Computing, Cybersecurity, System Integration to Internet of Things which element(s) has contributed to Operations Management Development in organisation for managers to make informed decisions. Data collected with a questionnaire was analysed to find the relevant actors of INDUSTRY 4.0.

Biography

Eric Amankwa A researcher, author and lecturer with several years of experience. He has authored two books: Assessment of security controls and, Mobile and web applications support systems, which are performing creditably well on the international market.