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Methodology for Implementing a Model Change Under Continuous Improvement

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Abstract: In the present article titled “Methodology for implementation a model change under continuous improvement”. The analysis and the methodology were carried out in the factory “Guanajuato Manufacturing Complex” (GMC), located in the Parque Industrial Silao (FIPASI) in Guanajuato, Mexico. The development of a SMED methodology based on PDCA (Plan- Do- Check- Act) has as its objective, to demonstrate a directed step by step process to improve the efficiency of rapid change, and includes well documented technical procedures with which an integral methodology is conceived, and thanks to its application in the field a complete process for future implementation was demonstrated, good for whichever business was desired to fulfill a client’s requirements, maximizing the available time of the production equipment. Through the application of this methodology the reduction of up to 50% in change model time is proposed, being able to obtain reductions in time of more than 80% with its application, with which we can affirm that with its correct application considerable reductions in change of model time can be reached, which permits lowering the inventory level and consequently the cost.

Keywords: Single Minute Exchange of Die (SMED), Plan-Do-Check-Act (PDCA).