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School-company Relationship as A Means of Application of Methods Engineering and System Simulation

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Abstract: Nowadays, the School-Company relationship offers students the opportunity to apply the knowledge they acquire during their professional development. This research shows how, based on the need to increase production and improve the current operating conditions of a company in the glass industry, a team of young people who are studying for industrial engineering were allowed to have access to the company to carry out projects focused on method engineering and simulation, with the aim of developing practical experience in process improvement. For the development of the project, tools were used for engineering methods such as data collection, direct observation, time study with stopwatch, time analysis, movement study, process documentation and operation simulation using PROModel Simulator software, resulting in the solution to problems related to delays, waste, materials, ergonomics and industrial safety. In addition to the previous ones, the greatest learning of the students was to verify the veracity of the information collected through the engineering of methods and measure the impact of their improvements in a simulation, generating a 43% increase in production capacity.

Keywords: School-company Linkage, Methods Engineering, System Simulation