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INSTRUMENT FOR ASSESSING THE SUSTAINABLE INNOVATION CAPACITY OF PROFESSIONALS IN CONSTRUCTION

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Abstract

Architects and Engineers have an important role in the choice of innovative and environmentally sustainable materials and techniques that will be used in their projects. To define these materials and techniques, they mobilize competencies acquired throughout their respective life experiences. To know the profile of the architect and innovative environmental engineer in Brazil, a self-assessment instrument was built that enables the knowledge of its essential characteristics in practice, namely: Which competencies are mobilized at the moment they choose for an environmentally innovative material and/or technique. The study uses the concept of competencies that proposes four dimensions of analysis: Professional, organizational, innovation and customer-related competencies. The instrument consists of a scale validated utilizing statistical analysis that contains 64 items of professional profile evaluation and was applied to 95 selected professionals. The items were elaborated based on the literature review and the authors ' experience. The model used for psychometric analysis was the IRT (item response theory) and the investigated properties were dimensionality, reliability, validity, and scalability. Given its division into sections, the scale can be analyzed by blocks or as a single scale. It is an instrument with internal consistency between acceptable and excellent, with varying degrees of difficulty for the latent traits, which is ready to be applied.

Keywords: Architects, competencies, engineers, environmental innovation

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