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A Study on Analytical Method of Design Process for Knowledge Transfer

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Summary: It's getting more important to transfer knowledge from elder experts to young engineers especially in shipbuilding industry in Japan. We proposed a method to analyze design process for knowledge transfer support. Design process is represented by workflow and related documents using newly developed document management system. Proposed method defines difficulty and importance of each task through questionnaires and structured interviews, and proposes direction of knowledge transfer .The method is evaluated in design department of a shipbuilding company. The experiment proves that tacit knowledge about some tasks can be represented in workflows and documents. By representing some of tacit knowledge for efficient knowledge transfer, costly training like on-the-job training focuses on only difficult and important tasks.