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Developing Platform for Education and Training in Welding Towards Standardization in Railway Industry in Thailand

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Railway industry has been an integral part of economic and industrial growth in many countries. Rail transportation for passengers and goods is considered to be very efficient, help reduce road traffic, and improve quality of life for large group of people. To develop railway vehicles and railway infrastructure, welding and joining technology are key manufacturing and maintenance processes which allow railway vehicles and infrastructure to be safe, strong, and secure. Therefore, it is very important to develop new and younger personnel through welding education platform especially welding and railway personnel to work together using common terms, codes, standards, and specification commonly used for railway industry. This project aims to design a new learning platform which combines knowledge and tools in welding and railway terms and standards to help teaching, training, and self-learning experience for welding and railway workers and interested people to learn and be able to relate concept of welding processes, design concepts, terms, and standards together to ensure strong and safety focus for working with railway vehicles and infrastructure. Students and teachers in welding and railway fields can also benefit using this platform to learn and exchange their understanding together inside and outside classroom.