

## Health and Safety Risk Assessment and Management Project in Workplace in Nakhon Si Thammarat Province

Project Code: SE๒๐๒๔๐๑๑

Currently found that the accident rate from work is increasing. There are many causes. What should entrepreneurs or factory owners do or what clear policies should they have to reduce accidents from work in their workplaces and ensure workers' safety? Safe work means a condition without danger. Therefore, work safety means work that is free from danger and not at risk of accidents, that is, it does not cause things such as illness or disease, injury, disability or death, property damage, wasted time, production process interruption, workers losing their morale and motivation at work, and business reputation loss. All of these are negative results. International trade barriers have also raised the issue of work safety as a tool for consideration in international trade. Implementing a project to assess health and safety risks in workplaces is important, especially in the stone crushing industry in Nakhon Si Thammarat Province. The Occupational Health and Safety Program, Faculty of Public Health, has talked to many workplaces in Nakhon Si Thammarat Province. They are committed to reducing illness and accidents from work.

Therefore, integrated teaching and learning is organized, emphasizing Active Learning for students to learn by themselves. Have academic and professional skills, can apply knowledge of occupational health and safety to work in the workplace according to the needs of graduate users and workplaces. It was found that risk assessment and risk management in both health and safety are part of what graduate users need. According to the role and duty in the future profession of students, they must be able to assess risks and manage such risks. Recognizing the important skills of work required in risk assessment and management, the curriculum therefore provides teaching in the subject of health risk management (OCC๒๔-๓๕๕) and the subject of risk assessment and management (OCC๒๔-๓๖๐) to provide students with knowledge and professional skills in management and management of health and safety risks.

Moreover, the project of academic service to serve society by integrating with teaching is organized to provide students with practical skills in workplaces to meet the needs of workplaces. Therefore, the project of health and safety risk assessment and management in workplaces in Nakhon Si Thammarat Province is organized. Results of the operation The team of ๓ lecturers in the occupational health and safety curriculum, Faculty of Public Health, contacted and coordinated with ๓ workplaces in the stone mill group to participate in the project. All ๓ were happy to participate.

And there was a meeting to explain the project details, including listening to the opinions and needs of the establishments to organize an integrated learning activity with academic services to serve society in the Health Risk Management (OCC၁၃-၈၆၃) and Risk Assessment and Management (OCC၁၃-၈၆၁) subjects through the following processes:

- Studying information about the establishment, production process
- Identifying safety hazards and threats ၈၈ students used knowledge in risk assessment in terms of safety, using all ၁ techniques to identify hazards and assessing risks, such as identifying hazards using Checklist, What if Analysis, HAZOP, ETA, FTA, etc. techniques to find risks and conduct risk assessments using the criteria of likelihood and severity of danger. It was found that the high risk level mostly came from stone trucks, large stone crushers, and stone conveyor systems on conveyor belts. After that, a risk management plan was created by providing knowledge and creating awareness of work safety.
- Identifying health hazards and threats ၈၈ students applied knowledge in occupational health and industrial hygiene by using tools to measure the noise level in the establishment, both in the area and on the workers. It was found that most of the noise was from the machinery used to crush large stones. Therefore, wearing safety equipment is really important. The Occupational Health and Safety Program, Faculty of Public Health, has provided training in risk assessment techniques for safety and health for supervisors to take care of themselves, including finding simple hazards and fixing them in the work area to create sustainability that workers can take care of their own safety. The Occupational Health and Safety Program, Faculty of Public Health, will also be continuously integrated into the learning of students in the next generation to follow up on improvements and corrections to dangerous points.



