

Multidisciplinary Educational Program: address the challenges of the environmental impacts of the mining activities.

by *El-Wardany R. M. and Jiangang Jiaoa* | a School of Earth Science and Resource, Chang'an University, Xi'an, Shaanxi 710054 China b Department of Geology, Faculty of Science, Al-Azhar University, Assiut Branch. 71524, Egypt.

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The mining industry is one of the most significant pillars in our modern life, the reason is without mining we cannot get mineral resources. To know how mining is highly important, think about without mining you cannot be able to read this abstract now using PC, Laptop, or even a Phone, and you cannot travel from one country to another, in addition, many instruments and materials in some lifesaver products like medical field have been produced from mineral resources. Moreover, high technology, buildings, roads, bridges entertainment, and as well as the country's income is dependent on the mining industry. Essentially, mineral resources and mining industry are not only necessary for our modern life but also it is the most supporter and the chief keys of our future live especially for renewable and green energy. On the other hand, the environmental issues (climatic changes, natural resources, waste disposal, shortage of food for human, loss of biodiversity, etc.) are the most global issues because any defect or change in the environment and life system cause various problems and harmful effect on the human and other organisms' life. One of the most important parts of environmental studies is to demonstrate the environmental impacts of mining. Thus, Mining activities cause several types of pollution, (land, water, vegetation, air and noise, disruption in biodiversity, architectural discovery and loss of artifacts, deforestation, loss of flora and fauna species, disturbance to sensitive eco-systems, the proliferation of mosquitoes and parasites, destruction of land and seascape, etc. So modern mining needs a proven and positive track record designed to minimize this impact, such as reclamation. Even though the importance of the mining industry and environmental studies, as well as the environmental impact of mining, is so clear and considered a global issue, there are no good or complete educational programs or even multidisciplinary courses that include these both sides especially middle east countries (depending on some statistics and examples in Egypt). In this program, we suggest a multidisciplinary program as a good guide including a core principle of mining and environmental impacts and other special skills. This program will include three main layers: mining layer, environmental layer, and critical knowledge layer, and each layer will include many sublayers. The benefits of this program are trying to create a new generation aware of this close relationship between mining and the environment by learning more, at once, thus gaining a great understanding of our planet and how we can best take care of it. Also, to

gain knowledge on how to apply various methods that can prevent/control pollution and create a less polluted Moreover, getting strong mentorship can develop and enhance his essential skills such as critical thinking, problem-solving, creative thinking, and building knowledge on important issues, as well as, preparing students for new jobs with high educational and personal skills, always creative and usually thinks outside the box in their one way, and has the confidence to handle multiple assignments under pressure, with ability to achieve an excellent communication skill.