



EDUCATION ON GREEN CHEMISTRY FOR SUSTAINABLE ENVIRONMENTAL HEALTH- NEED AND SIGNIFICANCE

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In this paper attempts are made to discuss the need for education on green chemistry in developing countries for the sustainable development with reference to continuous industrial operations and related environmental health. In general the concept of green chemistry is the invention, design and application of chemical products and processes to reduce or to eliminate the use and generation of hazardous substances. This concept is extremely related with the various industries as million tons of waste and overburden are produced regularly. However, the economic considerations and environmental valuations are pushing these industries to adopt new eco-friendly technologies to survive in the global market competition under environmental legislations. This can be achieved by imparting educational trainings in the field of green chemistry which provides tool for environmental concern and legislations coupled with the prospects of a competitive advantage in turn pushing these industries to develop and adopt cleaner technologies. At the same time the pollution prevention act with environmental protection agency (EPA) guideline may also be taken into account by the concerned industries. In this context various awards and grants are also started by various agencies to promote the green chemistry practice. The alternative synthetic pathways for pollution prevention are a model research grant started by office of pollution prevention and toxics (OPPT). Some other awards i.e. presidential green chemistry challenge award, Kenneth G. Hancock memorial award, award for green product and processes, UK green chemistry awards etc. are also working to promote the green chemistry concept. Various International organizations are also working to promote the education in green chemistry among the stakeholders are also discussed in the paper. This kind of exposure of educational promotions, awards, grants in industries will not only be helpful to work in the direction of reduction of pollution but also sustainable growth in the environmental health of the concerned society. At the same time the academic curriculum of students at all level should be compulsorily introduced the green chemistry so that they will be able to recognize its impact on human health and environment, irrespective of the intention of students to pursue careers in science and technology.