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## Barriers to the Study of Scientific Subjects and Level of Knowledge of Basic Chemistry

### ADULT LEARNERS' CASE STUDY

#### Adult Learner's Case Study N. 1:

Name, Subject Studied, Place: *Daniel Marinov Dinev, Automation, informational and control systems, Technical University of Gabrovo*

#### Description of the Case Study

Reasons of the decision not to continue studying scientific subjects: *I failed at my admission attempt because the admission test was in mathematics*

Main difficulties in scientific subject learning at school: *It was a problem for me to comprehend the chemistry stuff especially how to equalize chemical equations*

Self evaluation of knowledge of chemistry: *good*

Evaluation of the scientific information provided by the media: *I look up for the right information in various sources mostly from the internet. Bulgarian media do not provide access to relevant and comprehensible information whereas foreign media offer scientific information at a much higher level including chemistry*

Perception of the word "Chemical": *For example: chemical energy source (the output product is made chemical way)*

Result of the basic chemistry test: *If you melt 5 grams of salt in 100 grams of water, the solution obtained will weigh: 105 grams. We sometimes perceive the presence of some substances through the sense of smell, as they give off a characteristic scent. Do you think it is made of material or immaterial particles? (Please justify your answer). Material particles. Can you think of an example of a pure substance in solid state? Ferrous (Fe), copper (Cu). Can you think of an example of a pure substance in liquid state? Mercury (Hg) Can you think of an example of a pure substance in gaseous state? Hydrogen, Oxygen.*