

Training of arrangement items standardized PISA on higher order thinking skills aspect as efforts to improve competitiveness facing the mapping of international quality education

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ABSTRACT

Abstract. The Program for International Student Assessment (PISA) is an examination system initiated by the Organization for Economic Cooperation and Development (OECD), to evaluate education systems from 72 countries around the world. Every three years, 15-year-old students are chosen at random, to take the test of three basic competencies, namely reading, mathematics and science. This service was carried out in the workshop design and mentoring starting from an explanation of the use of the PISA international benchmarking survey standard in order to improve the competitiveness of students facing competition in the global era. The training was attended by 16 science teachers in junior high schools which were held in SMP N 2 Mlati by conducting collaborative partnerships with the MGMP IPA SMP in Sleman District for two stages. The first phase contains the delivery of the material by the Team followed by discussion, and the second stage contains training for the preparation of questions about the PISA model. Evaluation of activities is carried out both from the aspect of the process (workshops and mentoring) and product aspects (performing scientific literacy skills tests for students who receive treatment or trials). The results of the junior high school science teacher activities who took part in the training were able to compile a PISA model of science learning evaluation. The questions that have been prepared have also been implemented in the lesson study of science teachers. The evaluation results show that this activity is very useful for science teachers especially in preparing their students to follow the development of more advanced science and prepare them to face the era of globalization.

Kata Kunci: Teacher training, standardized assessment, international benchmarking