

Utilizing the Analytic Hierarchy Process in Improving Performances of Blind Judo

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Abstract : Identifying, structuring, and ranking the most important factors related to improving athletes' performances could pave the way for improve training system. The purpose of this study was to identify the relative importance factors to improve performance of the of judo athletes with visual impairments, including blindness by using the Analytic Hierarchy Process (AHP). After reviewing the literature, the relative importance of factors affecting performance of the blind judo was selected. A group of expert reviewed the first draft of the questionnaires, and then finally selected performance factors were classified into the major categories of techniques, physical fitness, and psychological categories. Later, a pre-selected experts group was asked to review the final version of questionnaire and confirm the priorities of performance factors. The order of priority was determined by performing pairwise comparisons using Expert Choice 2000. Results indicated that "grappling" (.303) and "throwing" (.234) were the most important lower hierarchy factors for blind judo skills. In addition, the most important physical factors affecting performance were "muscular strength and endurance" (.238). Further, among other psychological factors "competitive anxiety" (.393) was important factor that affects performance. It is important to offer psychological skills training to reduce anxiety of judo athletes with visual impairments and blindness, so they can compete in their optimal states. These findings offer insights into what should be considered when determining factors to improve performance of judo athletes with visual impairments and blindness.

Keywords : analytic hierarchy process, blind athlete, judo, sport performance

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