

#	Question	Things to consider
Category: Questions on Aims		
1.	Do the authors clearly state the aims of the research?	<p><i>Do the authors state research questions, e.g., related to time-to-market, cost, product quality, process quality, developer productivity, and developer skills?</i></p> <p><i>Do the authors state hypotheses and their underlying theories?</i></p>
Category: Questions on Design, Data Collection, and Data Analysis		
2.	Do the authors describe the sample and experimental units (=experimental materials and participants as individuals or teams)?	<p><i>Do the authors explain how experimental units were defined and selected?</i></p> <p><i>Do the authors state to what degree the experimental units are representative?</i></p> <p><i>Do the authors explain why the experimental units they selected were the most appropriate for providing insight into the type of knowledge sought by the experiment?</i></p> <p><i>Do the authors report the sample size?</i></p>
3.	Do the authors describe the design of the experiment?	<p><i>Do the authors clearly describe the chosen design (blocking, within or between subject design, do treatments have levels)?</i></p> <p><i>Do the authors define/describe all treatments and all controls?</i></p>
4.	Do the authors describe the data collection procedures and define the measures?	<p><i>Are all measures clearly defined (e.g., scale, unit, counting rules)?</i></p> <p><i>Is the form of the data clear (e.g., tape recording, video material, notes, etc.)?</i></p> <p><i>Are quality control methods used to ensure consistency, completeness and accuracy of collected data?</i></p> <p><i>Do the authors report drop-outs?</i></p>
5.	Do the authors define the data analysis procedures?	<p><i>Do authors justify their choice / describe the procedures / provide references to descriptions of the procedures?</i></p> <p><i>Do the authors report significance levels and effect sizes?</i></p> <p><i>If outliers are mentioned and excluded from the analysis, is this justified?</i></p> <p><i>Do the authors report or give references to raw data and/or descriptive statistics?</i></p>
6.	Do the authors discuss potential experimenter bias?	<p><i>Were the authors the developers of some or all of the treatments? If yes, do the authors discuss the implications anywhere in the paper? (If the authors developed the treatments (or parts of them) without discussing the implications, the answer to question 6 is “not at all”.)</i></p> <p><i>Was there random allocation to treatments?</i></p> <p><i>Was training and conduct equivalent for all treatment groups?</i></p> <p><i>Was there allocation concealment, i.e., did the researchers know to what treatment each subject was assigned?</i></p>
7.	Do the authors discuss the limitations of their study?	<p><i>Do the authors discuss external validity with respect to subjects, materials, and tasks?</i></p> <p><i>If the study was a quasi-experiment, do the authors discuss the design components that were used to address any study weaknesses?</i></p> <p><i>If the study used novel measures, is the construct validity of the measures discussed?</i></p>
Category: Questions on Study Outcome		
8.	Do the authors state the findings clearly?	<p><i>Do the authors present results clearly?</i></p> <p><i>Do the authors present conclusions clearly?</i></p> <p><i>Are the conclusions warranted by the results and are the connections between the results and conclusions presented clearly?</i></p> <p><i>Do the authors discuss their conclusions in relation to the original research questions?</i></p> <p><i>Are limitations of the study discussed explicitly?</i></p>
9.	Is there evidence that the E/QE can be used by other researchers / practitioners?	<p><i>Do the authors discuss whether or how the findings can be transferred to other populations, or consider other ways in which the research can be used?</i></p> <p><i>To what extent do authors interpret results in the context of other studies / the existing body of knowledge?</i></p>