

Sources for assessment plan for educational program

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Assessment is used here to refer to the act of collecting data or evidence that can be used to answer classroom, curricular, or research questions. In particular, how will you know whether your education plan has been successful? How do you plan to demonstrate that your intervention improved learning or skill development or retention in engineering or science? Assessment methods are defined here as the procedures used to support the data collection process and are an important consideration in any educational research design. Data collection may involve observations, interviews/focus groups, questionnaires, etc.

Qualitative Methods Used in the Assessment of Engineering Education

Leydens, Jon A, Moskal, Barbara M, Pavelich, Michael J Journal of Engineering Education, Jan 2004

<https://pdfs.semanticscholar.org/c2d6/6a6382a99e94f3c02c8e70ad72b180cc60c0.pdf>

Assessment in Engineering Education: Evolution, Approaches and Future Collaborations

Olds, Barbara M, Moskal, Barbara M, Miller, Ronald L Journal of Engineering Education, Jan 2005

<http://onlinelibrary.wiley.com/doi/10.1002/j.2168-9830.2005.tb00826.x/pdf>

Pedagogies of Engagement: Classroom-Based Practices

Smith, Karl A, Sheppard, Sheri D, Johnson, David W, Johnson, Roger T Journal of Engineering Education, Jan 2005

<http://onlinelibrary.wiley.com/doi/10.1002/j.2168-9830.2005.tb00831.x/epdf>

The 2010 User-Friendly Handbook for Project Evaluation

<https://www.westat.com/sites/westat.com/files/2010UFHB.pdf>

EvaluATE (<http://www.evaluate.org/>) “is the evaluation resource center for the National Science Foundation’s Advanced Technological Education program. We provide webinars, resource materials, newsletters, workshops, and opportunities for ATE community members to engage around issues related to evaluation in the pursuit of excellence in technical education.”

Download free PDFs from the National Academies Press:

National Research Council. (2000). [How People Learn: Brain, Mind, Experience, and School](#). Committee on Developments in the Science of Learning. Bransford, J.D., Brown, A.L., Cocking, R.R., Editors. with additional material from the Committee on Learning Research and Educational Practice. Donovan, M.S., Bransford, J.D., and Pellegrino, J.W., Editors.

National Research Council. (2001). [Adding it up: Helping children learn mathematics](#). Mathematics Learning Study Committee. Kilpatrick, J., Swafford, J., and Findell, B., Editors.

National Research Council. (2001). [Knowing what students know: The science and design of educational assessment](#). Committee on the Foundations of Assessment. Pellegrino, J., Chudowsky, N., and Glaser, R., Editors

National Research Council. (2002). [Scientific research in education](#). Committee on Scientific Principles for Education Research. Shavelson, R.J., and Towne, L., Editors.