MaSEE provides a framework to enable industry adapted processes to be embedded as Learning and Teaching tools, throughout the engineering curriculum.

OLT Seed Project Objectives

- Disseminate the concept of MaSEE to engineering educators (July 2013 – July 2014)
- Trial design verification as an exemplar process in multiple disciplines and institutions (Sem 1, 2014)
- Determine the level of support within the sector for the further development of MaSEE

MaSEE processes can be progressively introduced each year into selected courses. Each process would be introduced with teaching support initially, and then would become an assessment requirement for similar tasks in later years. Each process will be accompanied by a teacher implementation guide, student online module and process for student use.

Design Verification – Exemplar process

- An industry adapted design verification process was introduced in 2010 to a Level 1 assessment task, as peer generated cyclical formative feedback tool.
- Design verification is a core process that is used by engineers throughout their careers.
- Cyclical feedback has been demonstrated to be an effective teaching strategy (Hounsell et al., 2008).
- Evaluation of the use of the design verification process demonstrated improved learning outcomes. Tested structural designs produced a strength-to-weight ratio 44% higher than a previous student cohort (Willis et al., 2012).