

Business Needs and Requirements/Stakeholder Needs and Requirements Analysis

Overview:

This assignment operates over several stages, following the standard stages of the Systems Engineering process. Throughout the stages of the assignment you will have a chance to practice systems engineering skills both as a Customer (a business that needs a system) and a Contractor (a business that will design and provide the system).

Part 1: Due: 14th of August 2019 (Week 3)

Produce a Business Needs and Requirements (BNR) Document + Stakeholder Needs and Requirements (SNR) Document based on the problem that you are assigned. This assignment is an individual assignment. Please refer to the lecture material in creating BNR and SNR documents.

The problems are as follows:

Company F:

You are currently in the safety and training division of Makelt, a nationally growing franchise of makerspaces currently operating in 5 states around Australia. You provide lab facilities and equipment that people come in to be trained on and use. Your customers are hobbyists and inventors who want access to prototyping equipment like your 3D printers, laser cutter and power tools.

You were recently audited by Worksafe and in interviews with your customers many of them failed basic safety understanding tests (which they were trained on only a few months ago). Currently your training consists of an experienced operator demonstrating and observing a customer as they use the equipment for the first time. They are then signed off as a certified user. You also have some posters up on the walls, but you are concerned that many people ignore these. To avoid being shut down or sued in the case of an accident you are looking for ways of providing engaging training material that your customers can easily remember, review and train on that doesn't put lots of extra workload back on you every time someone needs a refresher.