

MPDS YEAR 2, QUARTER 1 REPORT

Objectives

To expand on experience gained in previous years and to develop my ability to take control of an aspect of a project.

Competences

CE C.2 – Plan, budget, organise, direct and control tasks, people and resources
 CE D.1 – Communicate in English with others at all levels
 CE B.2 – Conduct appropriate research, and undertake design and development of mechanical engineering solutions
 CE D.3 – Demonstrate personal and social skills
 CE C.1 – Plan for effective project implementation
 CE B.3 – Implement design solutions, and evaluate their effectiveness
 CE D.2 – Present and discuss proposals
 CE C.4 – Bring about continuous improvement through quality management
 CE E.1 – Comply with relevant codes of conduct
 CE E.2 – Manage and apply safe systems of work
 CE C.3 – Lead teams and develop staff to meet challenging technical and managerial needs
 CE E.4 – Carry out CPD necessary to maintain and enhance competence in own area of practice
 CE E.3 – undertake mechanical engineering activities in a way that contributes to sustainable development

Evidence Submitted

No evidence submitted

Quarterly Report

To supplement my evidence, I would like to refer to two pieces of evidence for this quarter. The first of these pieces of evidence is on the use of the Alpha Metering System (AMS). It was originally planned that this system would be mothballed and the Beta Metering System (BMS) would be used. However, a reduced operation was planned for this quarter, which would have been insufficient for the BMS to operate reliably, without several costly and time-consuming tasks. I developed a plan to avoid carrying out this change. I have discussions with my line manager and the customer and planned to make the necessary changes. This method would not be acceptable to the system should it be continuously used but I proposed that it would be acceptable as a monitor for the planned level of operation. My proposal was accepted. I carried out the relevant work and had all calibrations done. The measurement is on course to be completed.

Evaluation of the Period

I feel that this quarter has improved my negotiating skills required to become a professional engineer. My technical competence continues to improve. My ability and confidence to control and manage projects as also improved. I have been in discussions daily with customers' personnel which has helped me to improve these areas in my professional life.

Mentor's Review

Report reviewed and supporting evidence requested and provided. More detail was sought and provided prior to and during face-to-face meeting which allowed Emma to elaborate on her report and experience during the quarter. Emma showed a very good understanding of and demonstrated her high level of involvement in the proposal and implementation of an approved method during the maintenance shutdown. In implementing her proposal she needed to convince internal peers whose more traditional approach she was challenging. She approached this in a professional manner by quantitatively demonstrating that her methods would save money, reduce time required to do the work, and cause less disruption to operations. Emma also has to explain and convince the customer who had to grant dispensation from the traditional method, which she did by an excellent combination of open discussion, backed up by formal communication to ensure everyone was aware of the method going forward.

This has been a good quarter. Emma has shown a good grasp of the combination of general and specialist engineering knowledge and understanding. Her applied theoretical and practical methods to the solution of an engineering problem. She has also demonstrated high levels of effective interpersonal skills.

It would be very valuable during the next quarter for Emma to strengthen her experience of conducting research and undertaking design. She appears ready to enhance her experience of providing technical and commercial leadership, and in particular demonstrates the ability to lead a team and develop staff and bring about continuous improvement.