Design Thinking (Ideation and Representation) Module

Course Details

Module code PD6012

Available: Part-time

NFQ Level: 9

Duration: 12 weeks

Qualification: University Certificate of Study

Faculty: Science and Engineering

Course Type: Taught Professional/Flexible

Delivery: Online

Brief Description

Designed to suit graduates or professionals working in design or healthcare or the Medical Technology industry who wish to develop skills to lead and deliver, research and design in the area of products and service systems within health related organisations and companies. This module is centred around developing skills of ideation and concept generation. Students will interpret and utilise research findings from a Design guide/specification and conduct idea generation using creative methodologies.

Having completed this programme the participants will have and active awareness of tools and techniques of the early stages of the design process. Students will learn: the process of design, problem solving, critical, creative and design thinking skills, Brainstorming & ideation techniques, prototyping, role-play, iteration, visualization skills, sketching, modelling and design tools.

Regulatory requirements, policies, procedures – ISO 13485. Students will be able to apply these tools and techniques to generate design solutions in health related areas. They will have an appreciation of how International (e.g.ISO), U.S (e.g.FDA) and European (e.g.HE) standards and regulations impact on the design of medical and healthcare solutions.

Entry Requirements

A minimum Level 8 qualification

Where an applicant does not meet the entry requirements above, they can be evaluated under the UL RPL (prior learning) policy and may be interviewed to ascertain their suitability for the programme.