	EN7917	Fluid Mechanics

Course Aim	To give students knowledge of, and practical skills in, fluid mechanics; including fluid statics, fluid dynamics, flow measurement, hydraulic and pneumatic systems.

Short Title	Fluids	Version	3
Faculty	EDICT	Effective From	September 1, 2016
		Indicative NQF Level	7
Credits	15	Student Contact hrs	90
Pre-requisites	EN6907 (or ENB5907)	Self-directed hrs	60
Co-requisites	None	Other directed hrs	0
Anti-requisites	ENB5109 or ENB6911	Total learning hrs	150

Learning Outcomes	On successful completion of this course, students will be able to:	NQF Sub-strand
1	Demonstrate advanced understanding of static fluid concepts.	Theoretical Understanding
2	Apply the Bernoulli Equation and the associated energy equations to solve advanced fluid momentum transfer problems.	Practical Application of knowledge
3	Use specialist level skill to specify suitable pumps, fans and compressors for industrial use.	Generic, Problem Solving and Analytical Skills
4	Demonstrate advanced knowledge and understand of the operation of hydraulic and pneumatic systems and associated equipment.	Practical Application of knowledge
5	Propose solutions to advanced hydraulic and pneumatic applications.	Autonomy, Responsibility, Context