Draft Gold Standard Process Technician Formulation

	The Gold Standard Job Role skills, knowledge and behaviours	Gold Standard Qualifications & Training Standards (Examples)
Technical competence	 The individual has An appreciation of the relevant science and technology knowledge for the sector knowledge relevant to the manufacture of formulated products for specific industry applications 	L2 & L3 Diploma in Process Technology L3 Diploma in Operations and Technical Support in the Process Industries
	The individual understands • the principles which underpin the manufacture of formulated products including: o comminution, crystallisation, granulation, fluidisation o powder and liquid mixing technologies o suspension and dispersion techniques o crystalliser selection and design o precipitation processes o supercritical fluid processes o membrane technologies o powder and liquid handling and storage o flow through packed beds and porous media o solid-liquid separation processes o Compaction and mechanical properties of solid products • the principles of process control and instrumentation including: o measurement terminology; variables controlled and measured o flow measurement o temperature measurement o pressure measurement o electrochemical measurement • the principles of process operation including: o preparing and starting up a process o controlling and monitoring a process, and resolving	

	problems Critical Step Analysis and in-process controls Impact of formulations on ancillary process equipment Completing and shutting down a process Clean down procedures and techniques Maintenance support of plant and equipment Operating to regulatory requirements of formulated products such as GLP, GMP, where appropriate The individual can Perform simple quality control (qc) and standard analytical tests on formulated products Interpret the results from these tests Make decisions on how to modify the formulated product based on the interpretation of the qc data Apply the principles of experimental design	
Compliance	The individual understands Health & Safety Foundations of health and safety Responsibility for health and safety Risk assessment & Control including COSHH assessments Transport, Electrical & Fire safety Manual handling and repetitive activities Hazardous substances Working environment Process Safety Foundations of process safety including the HAZOP methodology Systems to prevent loss of containment Common risks and controls Plant integrity Emergency response Environmental Management Control of emissions Environmental risk assessments (impact assessment)	NEBOSH Award in Safety, Health & Environment for the Process Industries IOSH Managing Safely

	 specialist operations including Working at height Ladder safety FLT operator basic training Confined spaces Manual handling 	
Business improvement	The individual understands • the practice associated with a variety of appropriate business improvement techniques The individual can:	Levels 2-3 NVQ Diploma in Business Improvement Techniques (QCF)
	 review existing processes and practices, and recommend changes where necessary suggest ideas for new or improved processes Assist in commissioning of new Equipment solve process problems using business improvement techniques The individual understands and can deploy the principles of Resource Efficiency, including an awareness of Lean and Six Sigma techniques 	Edexcel L2 Award in Contributing to Business Resource Efficiency (QCF)
Functional & Behavioural		Performance appraisal HR systems
Skills for life	The individual has • basic skills in communications, numeracy and ICT	L2 Skills for Life
Autonomy	 The individual Can work autonomously and closely follow process procedures within required timelines. Can exercise judgement within limited parameters . 	
Working with others	 The individual can develop co-operative relationships with others in particular with new product development teams and plant operatives plan work with others and review progress against objectives 	

	 contribute towards the improvement of collaborative working take responsibility for supervising or guiding others where appropriate 	
Personal development	 The individual can take responsibility for personal development by setting targets and planning how they will be met review progress towards targets and establish evidence of achievements 	
Business awareness	 Has an appreciation of the industry sector and competitors Understands company structure, processes and procedures Is aware of customer requirements 	ILM L2 Award in Business Awareness