

	Diploma of Nanotechnology (Forsyth Tech Community College - USA)	Associate in Applied Science (Major Nanotechnology) (Forsyth Tech Community College - USA)	Diploma of Nanosystems Engineering Technology (Northern Alberta Institute of Technology - Canada)	Bachelor of Science (B.Sc.) NanoEngineering (University Duisburg Essen - Germany)	Diploma Nanotechnology Technician (Athens Technical College - USA)	Nanofabrication Technology A.A.S (Lehigh Carbon Community College - USA)	Postgraduate Certificate in Nanotechnology (University of Oxford - UK)	Diploma in Nanotechnology – Level 3 (IT Training - UK)	Nanomaterials and Advanced Composites (Cranfield University - UK)		
Workplace Health and Safety (WHS) Skills										0	7
Safety Practices										6	1
Common Hazards and Risks										4	0
Controls										1	0
PPE										0	0
Process Operations										1	5
Preparation										4	0
During Operations										2	0
Shut down and clean up										1	0
Assembly and Packaging										1	0
Packaging & Testing										2	0
Product Manufacturing										2	0
Equipment Operations and Types of Equipment										1	6
Lab Equipment										4	0
Microscopy										6	0
Vacuum Systems										3	0
Pumps										2	0
Attitudes										2	0
Basic Scientific Knowledge and Mathematics										4	5
Chemistry										7	1
Chemical Structure										5	2
Chemical Reactivity										5	1
Maths										7	0
Technical Maths / Applied										1	1
Algebra										4	1
Trigonometry										5	1
Calculus										3	2
Statistics										3	0
Physics										9	0
Electrical										1	0
Electronics										5	0
Biology										6	0
Polymer Science										1	0
Material Science										8	0
Nanotechnology Topics										3	6
Characterisation										8	0
Ethics										4	0
Intro										8	0
Thin Films										6	0
Nano Materials										8	1
Properties and applications										6	1
Deposition										4	1
Lithography										4	0
Etching										2	0
Cleanroom Standards										4	0
Cleanroom										4	0
Training (workplace training)										0	0
Reporting and Record Keeping										6	0
Quality Standards										0	4
ISO / IPC / FED STD										1	0
Lean six sigma										2	0
Project and Quality Management										3	0
Engineering Topics										0	6
Engineering										6	0
Mechanical Engineering										0	0
Technical Engineering										0	0
Chemical Engineering										1	0
Electrical Engineering										2	0
Bio Engineering										2	0
Engineering Materials										3	0
Mechanical Trade Skills / Maintenance and Repair										2	0
Specific Maintenance and Repair tasks										2	0
Process Improvement										0	0
Fault finding										0	0
Software and Computing Skills										0	3
Computer Aided Design (CAD)										1	0
Microsoft Office										1	0
Programming										2	0
Equipment Application Software										0	0
Industry 4.0 Skills										0	1
PLCs (programmable logic controller)										1	0
3D Printing										0	0

Mapping Colour Legend

	Delivered in Course / Topic / UoC
	Partially deliver in Course / Topic / UoC
	No alignment to Course / Topic / UoC

Topics	19	20	44	23	29	20	18	11	13
	0	0	0	0	1	0	9	3	0

Key Headings	2	2	7	3	4	3	2	0	0
Key KSA Areas Highly Aligned to course content	5	5	5	4	7	4	5	3	5
Key KSA Areas partially align to course content	8	8	3	8	4	8	8	12	10