

CSCA Competence Matrix



Underpinning Knowledge	Pre-Commission Cleaning	Remedial Cleaning	Maintenance Water Treatment
Basic water chemistry	Y	Y	Y
Types and operation of closed systems	Y	Y	Y
HS&E	Y	Y	Y
Basic Microbiology	Y	Y	Y
Basic understanding of closed systems and components	Y	Y	Y
Flow measurement	Y	Y	N
Pump speed control	Y	Y	N
System pressurisation	Y	Y	N
Types of control valve	Y	Y	N
Types of differential pressure control	Y	Y	N
Advanced knowledge			
Interpretation of water chemistry	Y	Y	Y
Cleaning process selection	Y	Y	N
Water treatment programming	N	N	Y
Impact of Flow rate	Y	Y	N
Interpretation of Microbiology results	Y	Y	Y
Good understanding of closed systems, plant and components	Y	Y	Y
Batch flushing principles	Y	Y	N
Underpinning Skills			
Sampling	Y	Y	Y
Use of test kits	Y	Y	Y
Dosing systems	Y	Y	Y
Advanced Skills			
Supervising a team	Y	Y	N
Planning a water quality maintenance regime	N	N	Y
Planning a cleaning process	Y	Y	N