

# Example Programme Only

## Paediatric Critical Care Level 3: Advanced Course

Day 1:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>Welcome</b>	<ul style="list-style-type: none"> <li>• Introductions / Icebreaker</li> <li>• Module Outcomes</li> <li>• Assessment - QI Project</li> <li>• Competency completion, mentorship and PDP</li> </ul>
<b>Ventilation Methods</b>	
<b>NAVA</b>	
<b>Advanced Respiratory Workshop</b>	<ul style="list-style-type: none"> <li>• Series of case studies exploring different elements of advanced paediatric respiratory critical care</li> <li>• Content to include: relevant physiology, altered pathophysiology, patient assessment, management of ARDS, evidence base for iNO therapy and HFOV</li> <li>• Escalation of respiratory support including indications for ECMO</li> <li>• De-escalation of respiratory support and weaning ventilation – potentially in with NAVA</li> </ul>
<b>Current National Picture and Future of PCC</b>	<ul style="list-style-type: none"> <li>• Current drivers of PCC in England</li> <li>• Where is the service going?</li> </ul>

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Day 2:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>Cardiac surgery workshop</b>	<ul style="list-style-type: none"> <li>• Series of case studies exploring different elements of post-operative surgical care</li> <li>• Content to include: relevant physiology, altered pathophysiology, surgical and interventional cardiology treatment options, post-operative care, LCOS, post-operative rhythm disturbance, external cardiac pacing, care of chest drains and tamponade</li> </ul>
<b>Surgery for CHD</b>	<ul style="list-style-type: none"> <li>• Surgical techniques used in CHD</li> <li>• Surgery for complex congenital heart disease</li> </ul>
<b>ECMO</b>	<ul style="list-style-type: none"> <li>• When Is ECMO used to support cardiac function in PICU</li> <li>• The role of the ECMO and bedside nurse</li> <li>• Troubleshooting the circuit and patient</li> </ul>

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Day 3:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>Advanced Neuro Workshop</b>	<ul style="list-style-type: none"> <li>• Content to include: relevant physiology, altered pathophysiology, patient assessment and treatment options of:</li> <li>• Cerebrovascular events (AVM, Strokes)</li> <li>• Cerebral empyema</li> <li>• Management of EVDs</li> <li>• Non-accidental head injuries</li> <li>• Pathophysiology and management of ICP including CPP and vasoactive drugs</li> <li>• Management of Diabetes Insipidus</li> </ul>
<b>Organ Donation</b>	<ul style="list-style-type: none"> <li>• Death by neurological criteria</li> <li>• Organ donor management</li> </ul>
<b>QI Group Tutorial</b>	<ul style="list-style-type: none"> <li>• Discussion around ideas for QI projects</li> </ul>

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Day 4:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>QI Session</b>	<ul style="list-style-type: none"> <li>• What is QI?</li> <li>• PDSA cycle</li> </ul>
<b>Management of the critically ill child with GI disease</b>	<ul style="list-style-type: none"> <li>• Series of case studies exploring different elements of acute/severe GI disease in children</li> <li>• Content to include: relevant physiology, altered pathophysiology, patient assessment and treatment options</li> </ul>
<b>Neonatal Care in PCC</b>	<ul style="list-style-type: none"> <li>• Specialist needs of the preterm infant / neonate in PCC</li> </ul>
<b>Pharmacology</b>	<ul style="list-style-type: none"> <li>• The impact of age and critical illness on pharmacodynamics and pharmacokinetics</li> </ul>
<b>Sedation, withdrawal and delirium</b>	<ul style="list-style-type: none"> <li>• Identification, treatment and management of withdrawal and delirium in PCC</li> </ul>

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## Paediatric Critical Care Level 3: Advanced Course

Day 5:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>Advanced Renal Workshop</b>	<ul style="list-style-type: none"> <li>• Peritoneal dialysis</li> <li>• Continuous Renal Replacement Therapy</li> </ul>
<b>Risk management and clinical governance</b>	<ul style="list-style-type: none"> <li>• Management of risk on PCC</li> <li>• Safety and quality of care</li> </ul>
<b>Nursing Research in PCC</b>	<ul style="list-style-type: none"> <li>• The value of nursing research in PCC</li> <li>• How research studies are conducted</li> <li>• Current studies</li> </ul>
<b>Thermal Injury</b>	<ul style="list-style-type: none"> <li>• Physiology of thermal injury</li> <li>• Initial management</li> <li>• PCC management of severe thermal injury</li> </ul>
<b>Academic Writing, or How to Pass your QI Project Assignment!</b>	<ul style="list-style-type: none"> <li>• Signposting to handbook, marking rubric and academic writing resources</li> <li>• Critical Analysis and Bloom's Taxonomy</li> </ul>

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Day 6:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>Ethical and Legal Dilemmas</b>	<ul style="list-style-type: none"> <li>The Legal and ethical frameworks which support decision making in PCC</li> </ul>
<b>Oncological Emergencies</b>	<ul style="list-style-type: none"> <li>Oncological emergencies which present to PCC and their treatment</li> <li>Specific issues relating to caring for an oncology child on PCC</li> </ul>
<b>Liver Dysfunction</b>	<ul style="list-style-type: none"> <li>Functions of the liver</li> <li>Hepatic Failure</li> <li>Acute liver dysfunction in critically ill children</li> <li>Clotting Disorders</li> </ul>
<b>Student Led Workshop of QI Projects (Group 1)</b>	<ul style="list-style-type: none"> <li>Students to come prepared to present on their work in progress QI project</li> <li>Students to offer feedback and engage with each other on their projects</li> </ul>

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## Paediatric Critical Care Level 3: Advanced Course

Day 7:

See Moodle for Pre-Study Day Required Activities	
Session Title	Indicative Content
<b>Student Led Workshop of QI Projects (Group 2)</b>	<ul style="list-style-type: none"> <li>• Students to come prepared to present on their work in progress QI project</li> <li>• Students to offer feedback and engage with each other on their projects</li> </ul>
<b>Major incident planning</b>	<ul style="list-style-type: none"> <li>• Major incident protocols</li> <li>• Dealing with mass casualties</li> <li>• PCC involvement in major incident planning</li> </ul>
<b>Wellbeing</b>	<ul style="list-style-type: none"> <li>• Staff wellbeing</li> <li>• Reflection and self-awareness</li> </ul>
<b>What next? Careers Forum</b>	<ul style="list-style-type: none"> <li>• Professional development, to include advanced and extended roles</li> <li>• Options for careers in PCC</li> <li>• Management, Education, Research, Transport, ECMO, Outreach.</li> </ul>
<b>Module Evaluation</b>	<ul style="list-style-type: none"> <li>• Module Evaluation</li> </ul>