

# Essentials of Critical Care Orientation (ECCO)

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## Implementation Guide

ECCO – Flexible and Impactful.....	2
Orientation Plan Self-Assessment .....	3
ECCO Implementation Scenarios.....	4
Scenario 1 .....	4
Scenario 2 .....	5
Scenario 3 .....	6
Scenario 4 .....	7
Scenario 5 .....	8
Scenario 6 .....	9
Scenario 7 .....	11
Scenario 8 .....	17
Additional Information .....	18

## ECCO – Flexible and Impactful

Empowering your nurses to provide the best patient care in their unique work environment starts with giving them the information they need, when they need it.

AACN's Essentials of Critical Care Orientation (ECCO) can help you craft an education plan that addresses your learners' particular goals and challenges. With online learning modules focused on key topics, as well as flexibility in when and how those modules are used, nurse educators and administrators can create a powerful educational program that:

- Blends easily with other content or learning methods
- Considers orientation time restrictions and probationary periods
- Includes content that is adaptable to diverse nursing roles serving different patient populations
- Features beneficial tools to aid preceptors
- Is appropriate for phased implementation – content can be offered at the beginning of a probationary period or toward the end

To help you plan the orientation experience that's best for you and your learners, AACN has created two tools:

### Orientation Plan Self-Assessment

This tool will help you prepare a customized critical care orientation journey for your learners.

### ECCO Implementation Scenarios

ECCO can be blended to complement your learning environment schedule. We offer these scenarios to help you map out your education plan and meet your learners' needs.

# Orientation Plan Self-Assessment

Designing your ideal program starts with evaluating your orientation needs. To begin, download and complete this streamlined assessment. If you need to review course content while doing so, visit our ECCO webpage.

*Tip: AACN recommends you collaborate with nurse managers and preceptors of units where new nurses are hired, to help identify the most important content for those units.*

## Unique Needs

1. What immediate needs are unique to your unit or hospital? What do your nurses need right now?
  - What training activities can wait or be considered optional/not mandatory?
  - Is it possible to give the novice nurse time on the unit prior to starting the critical care course, so the nurse can develop a frame of reference for the content?

## Blended Learning

2. What types of instructor-led blended offerings (topic-specific class, simulation, discussion groups, case study presentations, etc.) are scheduled?
  - Is the ECCO content going to be supplementary, background, or baseline for those offerings?
  - Should the nurse have some understanding prior to participating in those offerings or prior to taking care of a patient?
3. Do you offer blended learning activities that are learner-led and educator monitored where the nurses can share experiences and ideas?
  - Examples may include private social media groups, private blogs, or private online discussion groups.
  - Do you offer in-person time for sharing experiences?

## Use of Preceptors

4. How are preceptors involved in providing education and evaluation of novice nurses?
  - Are the preceptors using the preceptor tools included in each ECCO module?

## Learning or Completion Incentives

5. Are there incentives for successfully completing all orientation activities by the conclusion of the probationary evaluation?
  - Do your new hires have to fulfill all new-hire requirements by the end of the probationary period?
  - Do you plan to provide financial incentives to complete ECCO?
    - For example, some hospitals offer a pay increase for successfully completing orientation and providing proof of completion.
    - Are you able to implement this type of reward system to incentivize completion of all modules within a certain period of time?

Now that you've completed the full assessment and reviewed the ECCO course content, you should have a good understanding of your program's framework. Then discover the possibilities for flexing content completion within six to 12 months of hire.

# ECCO Implementation Scenarios

Scheduling ECCO at the most-effective time can make all the difference for your nurses. The following scenarios explore how to integrate ECCO into your use of preceptors, in-person orientation, and probationary periods as part of a blended learning approach where ECCO content and your own content are part of the orientation. Select the scenario that best matches your work environment and needs.

*In this scenario, the nurse is hired, starts in the unit with a preceptor, and then ECCO begins two to six months after hire.*

<b>Scenario 1</b>	Preceptor-guided orientation to unit prior to starting ECCO and blended-learning critical care classes
<b>Completion Time:</b>	<i>ICU 75.64 hours and PCU 68 hours (full course) completed at a predetermined time after hire</i>
<b>Implementation Suggestions:</b>	<p>Orientation to the unit with a preceptor and patient care for a period of time after hire, prior to starting ECCO and the critical care course. The following scenarios explore how to integrate ECCO using a blended learning approach. ECCO is designed to complement your orientation plans, which may include preceptors, instructor-led training, and simulation. Select the scenario that best matches your work environment and educational needs.</p> <ul style="list-style-type: none"> <li>• Start ECCO with blended learning activities following the eighth or 12th week, or sixth month after hire.               <ul style="list-style-type: none"> <li>◦ This plan provides learners with a frame of reference. They can apply the knowledge they are learning through ECCO to the experience already gained.</li> <li>◦ Also, it may help avoid the cognitive overload of front-loading all the content at the beginning of orientation.</li> </ul> </li> <li>• Some simulation activities may be included prior to starting the formal critical care course.</li> <li>• At a predetermined time after hire, ECCO is assigned and attendance at blended-learning classes is scheduled.</li> <li>• Complete ECCO between three to six months, or six to nine months, after starting the new position.</li> </ul>
<b>Case Study:</b>	<p>A hospital assigns ECCO six months after hire, using the following schedule.</p> <ul style="list-style-type: none"> <li>• 12 hours of ECCO per week for 10 weeks</li> <li>• Critical care course with simulations for concepts they might not see every day – one day per week for 10 weeks</li> <li>• During this time, the nurse is no longer with a preceptor but has peer group and educator access for support, in addition to regular check-ins to discuss scenarios and learning for 10 weeks.</li> </ul>

## ECCO Implementation Scenarios (cont.)

Scenarios that include partial completion of ECCO during the orientation phase, with full completion prior to the end of the probationary period:

<b>Scenario 2</b>	Allows the novice nurse to complete some modules as part of the orientation and other modules prior to the end of the probationary evaluation
<b>Completion Time:</b>	<i>ICU 52.49 hours and PCU 49.37 hours</i>
<b>Implementation Suggestions:</b>	<p>Choose modules that are not mandatory based on your patient populations. Suggest that learners complete the non-mandatory modules after orientation and before access expires in order to:</p> <ul style="list-style-type: none"> <li>• Reinforce knowledge</li> <li>• Acknowledge that the nurse may not have time to complete the content in the time frame</li> <li>• Reduce stress</li> </ul>
<b>Case Study:</b>	<p>One hospital's schedule excludes the following modules from orientation based on their blended learning activities and patient populations.</p> <ul style="list-style-type: none"> <li>• <b><i>Global Perspectives in the Care of Critically Ill Patients: Parts 1 and 2:</i></b> not mandatory as nurses have numerous discussions, simulation, and other places where they infuse the content on frameworks for practice; complications of critical illness; professional nursing practice; special populations; pain, agitation and delirium; prioritizing/organizing care; special situations and special populations; and palliative and end-of-life care.</li> <li>• <b><i>Caring for Patients With Pulmonary Disorders: Part 2:</i></b> not mandatory due to class on ventilator management.</li> <li>• <b><i>Caring for Patients With Cardiovascular Disorders: Part 4:</i></b> topic on transcatheter aortic valve replacement (TAVR) is only on one or two units, so they don't use that topic from CV-4.</li> <li>• PCU track: does not include <b><i>Hemodynamic Monitoring Critically Ill Patients: Part 2</i></b>, since they won't see the PA cath. and won't use the hemodynamics content.</li> <li>• <b><i>Renal 2</i></b> (ICU only); novice nurse does not need CRRT content at this stage.             <ul style="list-style-type: none"> <li>◦ Consider assigning Renal 2: CRRT module toward the six-month mark or if seat license allows for a full year, assign in last two months of first year of hire.</li> </ul> </li> </ul>

## ECCO Implementation Scenarios (cont.)

<b>Scenario 3</b>	Assigning topics from modules instead of the full module to support the blended learning activity of the week
<b>Completion Time:</b>	<i>ICU 16.53 hours and PCU 17.68 hours</i>
<b>Implementation Suggestions:</b>	<p>Assign the topics needed for blended learning activity.</p> <ul style="list-style-type: none"> <li>• Learner completes assignments from a module for weekly class.</li> <li>• Learner completes the rest of the module by assigned due date as determined by educator.             <ul style="list-style-type: none"> <li>◦ Accountability to the student to have full modules completed by the end of orientation. (<i>See note about incentives.</i>)</li> </ul> </li> <li>• Assignments from modules to assign:             <ul style="list-style-type: none"> <li>◦ <b>Cardiovascular 1</b> for assignment on acute coronary syndrome</li> <li>◦ <b>Cardiovascular 3</b> for assignment on heart failure</li> <li>◦ <b>Pulmonary 1</b> for assignments on respiratory failure and managing oxygenation/ventilation, which includes noninvasive ventilation and acid-base disturbances</li> <li>◦ <b>Pulmonary 2</b> for assignment on invasive ventilation</li> <li>◦ <b>Hemodynamics 1</b> for assignments on arterial and central line insertion/removal</li> <li>◦ <b>Neurologic 1</b> for assignment on neuro assessment</li> <li>◦ <b>Renal 1</b> for assignments on acute kidney injury and electrolyte imbalances</li> <li>◦ <b>Endocrine</b> for assignments on DKA and managing hyperglycemia</li> <li>◦ <b>Gastrointestinal</b> for assignments on managing patients with nutritional support</li> <li>◦ <b>Global Perspectives 2</b> for assignments on managing pain, agitation, delirium; and complications of critical illness</li> </ul> </li> </ul>

## ECCO Implementation Scenarios (cont.)

Scenario 4	Large health system with multiple sites for two-part orientation
<p><b>Completion Time:</b></p>	<p><i>Full modules: Part 1 (ICU 29.14 hours and PCU 25.1 hours) and Part 2 (ICU 27.38 hours and PCU 24.98 hours)</i></p> <p><i>Partial module completion: Part 1 (ICU 12.8 hours and PCU 13.1 hours) and Part 2 (ICU 15.35 hours and PCU 14.64 hours)</i></p>
<p><b>Implementation Suggestions:</b></p>	<p>Part 1: Assign the content the nurse needs in order to practice safely.</p> <ul style="list-style-type: none"> <li>• Full module or selected topics from modules focusing on cardiac (parts 1-3), pulmonary (parts 1-2), hemodynamics (part 1) and neurological (part 1) <ul style="list-style-type: none"> <li>◦ Full module completion of all content would take approximately 29.14 hours for ICU or 25.1 hours for PCU.</li> <li>◦ Partial completion of selected topics from modules would take approximately 12.8 hours for ICU and 13.1 hours for PCU.</li> </ul> </li> </ul> <p>Part 2: Assign content that is necessary for managing critically ill patients.</p> <ul style="list-style-type: none"> <li>• Full module or selected topics from modules focusing on gastrointestinal, renal (part 1), hemodynamics (part 2), hematology, endocrine, and multisystem <ul style="list-style-type: none"> <li>◦ Completion of all content from these modules would take approximately 27.28 hours for ICU and 24.98 hours for PCU.</li> <li>◦ Partial completion of selected topics from modules would take approximately 15.35 hours for ICU and 14.64 hours for PCU.</li> </ul> </li> </ul> <p>Full module completion is required by six-month evaluation.</p> <p><b><i>Global Perspectives in the Care of Critically Ill Patients: Parts 1 and 2</i></b> modules are not mandatory, as this facility covers that content using in-person classroom activities.</p> <ul style="list-style-type: none"> <li>• Learners are encouraged to complete these modules on their own time.</li> </ul>
<p><b>Case Study:</b></p>	<p>Part 1 is three weeks in duration and occurs after the nurse has been working with a preceptor for approximately one month.</p> <ul style="list-style-type: none"> <li>• Some modules are assigned as prerequisite work, while others are completed during classroom activities.</li> <li>• Blended learning activities include simulations, which are based on the objectives from the ECCO modules. <ul style="list-style-type: none"> <li>◦ Each week there are blended learning activities and time on the unit with a preceptor</li> </ul> </li> </ul> <p>Part 2 is two weeks in duration and occurs at a minimum of two weeks after part 1 is completed but may not occur for up to six months following part 1.</p> <ul style="list-style-type: none"> <li>• Same cadence as part 1 for module completion, blended learning activities and simulations</li> </ul> <p>Preliminary outcomes for assigning less content at the beginning shows improved final assessment scores.</p>

## ECCO Implementation Scenarios (cont.)

<b>Scenario 5</b>	ICU and PCU nurses in 250-bed community hospital complete portions of the ECCO ICU track for cross-training purposes
<b>Completion Time:</b>	<i>33.6 hours</i>
<b>Implementation Suggestions:</b>	<p>Modules are chosen based on the nurses' most common patient population – eight modules are assigned to be completed during 12-week orientation (<i>approximately 34 hours for content completion</i>).</p> <ul style="list-style-type: none"><li>• <i>Caring for Patients With Cardiovascular Disorders: 1, 2, 3 and 4</i></li><li>• <i>Caring for Patients With Pulmonary Disorders: Parts 1 and 2</i></li><li>• <i>Caring for Patients With Neurologic Disorders: Parts 1 and 2</i></li></ul> <p>Learners are encouraged to complete other modules while they have access.</p>

## ECCO Implementation Scenarios (cont.)

Scenarios that require full ECCO completion, except one or two modules, during the orientation period:

<b>Scenario 6</b>	Union hospital with learners in medical, surgical, neuro, cardiothoracic and trauma ICU and progressive care units (multidiscipline learners), 11-week time frame					
<b>Completion Time:</b>	<p><i>ICU Track 68.15-72.63 hours and PCU Track 65.27-67.69 hours</i></p> <ul style="list-style-type: none"> <li>• Overall orientation time is three months total from new-hire orientation to completion of preceptorship in ICU.</li> <li>• Assuming first week of hire includes new employee orientation, 11 weeks remain to complete ECCO (total 12 weeks of orientation).</li> <li>• Consider assigning the most relevant content first for each unit: four to 10 hours of ECCO per week. Modules are listed by week.</li> </ul>					
<p><i>ICU Track:</i></p> <p><i>Completion Time:</i> <i>68.15-72.63 hours</i> <i>(estimated)</i></p> <p>GP= Global Perspectives module</p>	<b>Orien- tation Week:</b>	<b>Medical ICU 68.15 hours</b>	<b>Surgical ICU 68.15 hours</b>	<b>Neuro ICU 68.15 hours</b>	<b>Trauma ICU 68.15 hours</b>	<b>Cardiotho- racic ICU 72.63 hours</b>
	<b>Wk 2</b>	Cardio 1: 3.75 h	Pulm 1&2: 8.2 h	Neuro 1: 4.35 h	Cardio 1: 3.75 h	Cardio 1: 3.75 h
	<b>Wk 3</b>	GP 1&2: 7.9 h	GP 1&2: 7.9 h	GP 1&2: 7.9 h	GP 1&2: 7.9 h	GP 1&2: 7.9 h
	<b>Wk 4</b>	Pulm 1&2: 8.2 h	GI: 4.66 h	Neuro 2: 4.4 h	Pulm 1&2: 8.2 h	Cardio 2: 4.64 h
	<b>Wk 5</b>	Endo: 4.7 h	Cardio 1: 3.75 h	Pulm 1&2: 8.2 h	Neuro 1& 2: 8.8 h	Cardio 3: 3.15 h
	<b>Wk 6</b>	Renal 1: 4.24 h	Renal 1: 4.24 h	Cardio 1: 3.75 h	Cardio 2: 4.64 h Cardio 3: 3.15 h	Hemo 1&2: 9.6 h
	<b>Wk 7</b>	Cardio 2: 4.64 h Cardio 3: 3.15 h	Endo: 4.7 h	Cardio 2: 4.64 h Cardio 3: 3.15 h	Hemo 1&2: 9.6 h	Pulm 1&2: 8.2 h
	<b>Wk 8</b>	GI: 4.66 h	Hemat: 3.14 h	Hemo 1&2: 9.6 h	Endo: 4.7 h	Renal 1: 4.24 h
	<b>Wk 9</b>	Hemat: 3.14 h	Cardio 2: 4.64 h Cardio 3: 3.15 h	Renal 1: 4.24 h	Renal 1: 4.24 h	Cardio 4: 4.48 h Endo: 4.7 h
	<b>Wk 10</b>	Hemo 1&2: 9.6 h	Hemo 1&2: 9.6 h	Endo: 4.7 h	GI: 4.66 h	Neuro 1&2: 8.8 h
	<b>Wk 11</b>	Neuro 1&2: 8.8 h	Neuro 1&2: 8.8 h	GI: 4.66 h Hemat: 3.14 h	Hemat: 3.14 h	GI: 4.66 h Hemat: 3.14 h
	<b>Wk 12</b>	Multisys: 5.37 h	Multisys: 5.37 h	Multisys: 5.37 h	Multisys: 5.37 h	Multisys: 5.37 h
	<b>6 mo. to 1 yr.</b>	Cardio 4 (open heart surgery): 4.48 h  Renal 2: CRRT 2.83 h	Cardio 4 (open heart surgery): 4.48 h  Renal 2: CRRT 2.83 h	Cardio 4 (open heart surgery): 4.48 h  Renal 2: CRRT 2.83 h	Cardio 4 (open heart surgery): 4.48 h  Renal 2: CRRT 2.83 h	Renal 2: CRRT 2.83 h

## ECCO Implementation Scenarios (cont.)

<p><i>Progressive Care Track:</i></p> <p><i>Completion Time: 65.27-67.69 hours estimated completion time for content assigned during orientation period</i></p> <p>No PA catheter, CRRT, neuromuscular blockade, post-anesthesia recovery, multi-organ dysfunction syndrome (MODS)</p>	<b>Orien- tation Week:</b>	<b>Medical PCU 65.27 hours</b>	<b>Surgical PCU 65.27 hours</b>	<b>Neuro PCU 65.27 hours</b>	<b>Trauma PCU 65.27 hours</b>	<b>Cardiotho- racic PCU 67.69 hours</b>
	<b>Wk 2</b>	Cardio 1: 4.22 h	Pulm 1&2: 8.9 h	Neuro 1: 3.45 h	Cardio 1: 4.22 h	Cardio 1: 4.22 h
	<b>Wk 3</b>	GP 1&2: 7.9 h	GP 1&2: 7.9 h	GP 1&2: 7.9 h	GP 1&2: 7.9 h	GP 1&2: 7.9 h
	<b>Wk 4</b>	Pulm 1&2: 8.9 h	GI: 4.33 h	Neuro 2: 4.42 h	Pulm 1&2: 8.9 h	Cardio 2: 4.17 h
	<b>Wk 5</b>	Endo: 4.73 h	Cardio 1: 4.22 h	Pulm 1&2: 8.9 h	Neuro 1&2: 7.9 h	Cardio 3: 3.15 h
	<b>Wk 6</b>	Renal 1: 4.24 h	Renal 1: 4.24 h	Cardio 1: 4.22 h	Cardio 2: 4.17 h Cardio 3: 3.15 h	Hemo 1&2: 8.9 h
	<b>Wk 7</b>	Cardio 2: 4.17 h Cardio 3: 3.15 h	Endo: 4.73 h	Cardio 2: 4.17 h Cardio 3: 3.15 h	Hemo 1&2: 8.9 h	Pulm 1&2: 8.9 h
	<b>Wk 8</b>	GI: 4.33 h	Hemat: 3.14 h	Hemo 1&2: 8.9 h	Endo: 4.73 h	Renal 1: 4.24 h
	<b>Wk 9</b>	Hemat: 3.14 h	Cardio 2: 4.17 h Cardio 3: 3.15 h	Renal 1: 4.24 h	Renal 1: 4.24 h	Cardio 4: 2.42 h Endo: 4.73 h
	<b>Wk 10</b>	Hemo 1&2: 8.9 h	Hemo 1&2: 8.9 h	Endo: 4.73 h	GI: 4.33 h	Neuro 1&2: 7.9 h
	<b>Wk 11</b>	Neuro 1&2: 7.9 h	Neuro 1&2: 7.9 h	GI: 4.33 h Hemat: 3.14 h	Hemat: 3.14 h	GI: 4.33 h Hemat: 3.14 h
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## ECCO Implementation Scenarios (cont.)

Scenario 7	ECCO module completion over 18-week period for ICU, PACU, cath lab, and interventional radiology RNs at nonprofit community hospital. Level 2 Trauma, Level 1 Stroke, and accredited chest pain and heart failure hospital. 16-week critical care orientation with 18 weeks to complete ECCO.																																										
<b>Completion Time:</b>	<p>75.64 hours over 18 weeks = average of 4.2 hours per week (ICU track) per week of ECCO.</p> <ul style="list-style-type: none"> <li>ECCO starts the 2<sup>nd</sup> week of hire, expected completion by 18<sup>th</sup> week. Milestones expected.</li> </ul> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="background-color: #d9e1f2;">% complete</th> <td>20%</td> <td>40%</td> <td>60%</td> <td>80%</td> <td>100%</td> </tr> <tr> <th style="background-color: #d9e1f2;">Due Date</th> <td>Week 4</td> <td>Week 8</td> <td>Week 12</td> <td>Week 16</td> <td>Week 18</td> </tr> </thead></table> <ul style="list-style-type: none"> <li>This schedule allows the learner a few extra weeks to have all milestones completed by the end of the probationary period.</li> </ul>	% complete	20%	40%	60%	80%	100%	Due Date	Week 4	Week 8	Week 12	Week 16	Week 18																														
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<b>Sample Schedule:</b>	<p><b>ECCO Implementation 18 week Scenario</b></p> <p>Name: _____</p> <p>ICU: _____ Start Date: _____</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="background-color: #d9e1f2;">Module Title <i>Assignment Title</i></th> <th style="background-color: #d9e1f2;">ICU Estimated Seat Time (Minutes)</th> <th style="background-color: #d9e1f2;">ICU ANCC CE Hours</th> <th style="background-color: #d9e1f2;">Timeline</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Global Perspectives in the Care of Critically Ill Patients: Part 1</b></td> <td rowspan="5" style="text-align: center; vertical-align: middle;">Week 1</td> </tr> <tr> <td><i>Professional Critical Care Nursing Practice</i></td> <td style="text-align: center;">59.83</td> <td style="text-align: center;">0.99</td> </tr> <tr> <td><i>Frameworks for Professional Nursing Practice</i></td> <td style="text-align: center;">85.17</td> <td style="text-align: center;">1.42</td> </tr> <tr> <td><i>Older Adults and Bariatric Populations</i></td> <td style="text-align: center;">62.75</td> <td style="text-align: center;">1.04</td> </tr> <tr> <td>Global Perspectives 1 Module Totals</td> <td style="text-align: center;">207.75</td> <td style="text-align: center;">3.45</td> </tr> <tr> <td colspan="3"><b>Global Perspectives in the Care of Critically Ill Patients: Part 2</b></td> <td rowspan="7" style="text-align: center; vertical-align: middle;">Week 2</td> </tr> <tr> <td><i>Pain, Agitation and Delirium</i></td> <td style="text-align: center;">60.5</td> <td style="text-align: center;">1.01</td> </tr> <tr> <td><i>Healthcare-Associated Complications &amp; Other Complications of Critical Illness</i></td> <td style="text-align: center;">44.28</td> <td style="text-align: center;">0.74</td> </tr> <tr> <td><i>Prioritizing and Organizing Care</i></td> <td style="text-align: center;">48.5</td> <td style="text-align: center;">0.81</td> </tr> <tr> <td><i>Procedural Sedation Post-Anesthesia Recovery (ICU)</i></td> <td style="text-align: center;">64.2</td> <td style="text-align: center;">1.07</td> </tr> <tr> <td><i>Palliative and End-of-Life Care</i></td> <td style="text-align: center;">46.67</td> <td style="text-align: center;">0.77</td> </tr> <tr> <td>Global Perspectives 2 Module Totals</td> <td style="text-align: center;">264.15</td> <td style="text-align: center;">4.4</td> </tr> </tbody> </table>	Module Title <i>Assignment Title</i>	ICU Estimated Seat Time (Minutes)	ICU ANCC CE Hours	Timeline	<b>Global Perspectives in the Care of Critically Ill Patients: Part 1</b>			Week 1	<i>Professional Critical Care Nursing Practice</i>	59.83	0.99	<i>Frameworks for Professional Nursing Practice</i>	85.17	1.42	<i>Older Adults and Bariatric Populations</i>	62.75	1.04	Global Perspectives 1 Module Totals	207.75	3.45	<b>Global Perspectives in the Care of Critically Ill Patients: Part 2</b>			Week 2	<i>Pain, Agitation and Delirium</i>	60.5	1.01	<i>Healthcare-Associated Complications &amp; Other Complications of Critical Illness</i>	44.28	0.74	<i>Prioritizing and Organizing Care</i>	48.5	0.81	<i>Procedural Sedation Post-Anesthesia Recovery (ICU)</i>	64.2	1.07	<i>Palliative and End-of-Life Care</i>	46.67	0.77	Global Perspectives 2 Module Totals	264.15	4.4
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<b>Sample Schedule (cont.):</b>	<b>Module Title</b> <i>Assignment Title</i>	<b>ICU Estimated Seat Time (Minutes)</b>	<b>ICU ANCC CE Hours</b>	<b>Timeline</b>
	<b>Caring for Patients With Cardiovascular Disorders: Part 1</b>			Week 3
	<i>Assessing the Cardiovascular System</i>	29.25	0.48	
	<i>Diagnosis Acute Coronary Syndrome (ACS)</i>	41.4	0.69	
	<i>Treating ACS: STEMI, NonSTEMI, Unstable Angina</i>	51.67	0.86	
	<i>Pulmonary Edema, RVMI, Cardiogenic Shock and ACS Complications</i>	45	0.75	
	<i>Noninvasive and Invasive Cardiac Procedures: Pre and Post Care</i>	58.25	0.97	
	Cardiovascular 1 Module Totals	225.57	3.75	
	<b>Caring for Patients With Cardiovascular Disorders: Part 2</b>			Week 4
	<i>Cardiac Tamponade, HTN Crisis, Cardiac Inflammatory Diseases ICU-Only Septal Defects</i>	62.33	1.04	
	<i>Aortic Aneurysm, Dissection and Repair; Carotid Artery Stenosis and Peripheral Vascular Disease</i>	68.67	1.14	
	<i>Pacemakers and ICDs</i>	99	1.65	
	<i>Long QT Syndrome, EP Studies, RFA, Cardioversion and Defibrillation</i>	49	0.81	
	Cardiovascular 2 Module Totals	279	4.64	
	<b>Caring for Patients With Cardiovascular Disorders: Part 3</b>			Week 5
	<i>Cardiomyopathies</i>	56.25	0.93	
	<i>Heart Failure</i>	64.75	1.08	
	<i>Stenosis or Regurgitation of the Aortic and Mitral Valves</i>	68.5	1.14	
	Cardiovascular 3 Module Totals	189.5	3.15	
	<b>Caring for Patients With Cardiovascular Disorders: Part 4</b>			Week 6
	<i>Cardiac Surgery: Preoperative and Intraoperative Management</i>	112.2	1.87	
	<i>Postoperative Management: First 24 Hours to Discharge</i>	89	1.48	
	<i>Transcatheter Aortic Valve Replacement (TAVR)</i>	67.8	1.13	
	Cardiovascular 4 Module Totals	269	4.48	

## ECCO Implementation Scenarios (cont.)

Scenario 7 (cont.)	ECCO module completion over 18-week period for ICU, PACU, cath lab, and interventional radiology RNs at nonprofit community hospital. Level 2 Trauma, Level 1 Stroke, and accredited chest pain and heart failure hospital. 16-week critical care orientation with 18 weeks to complete ECCO.					
<b>Sample Schedule (cont.):</b>	<b>Module Title</b> <i>Assignment Title</i>			<b>ICU Estimated Seat Time (Minutes)</b>	<b>ICU ANCC CE Hours</b>	<b>Timeline</b>
	<b>Caring for Patients With Pulmonary Disorders: Part 1</b>					Week 7
	<i>Assessment, Diagnostics and Monitoring</i>			65.6	1.04	
	<i>Managing Oxygenation and Ventilation (ABGs, O<sub>2</sub> Delivery, Airway Management; Noninvasive Positive Pressure Ventilation)</i>			60.67	1.01	
	<i>PE, Pulmonary HTN, Pneumonia, Asthma/ Status Asthmaticus and COPD</i>			69.5	1.15	
	<i>Respiratory Failure and ARDS</i>			44.2	0.73	
	<i>Pneumothorax and Hemothorax, Pleural Effusions, Chest Tubes and Thoracentesis</i>			55	0.9	
	<i>Thoracic Surgery, Thoracotomy and Pneumonectomy</i>			38.4	0.64	
	Pulmonary 1 Module Totals			333.37	5.47	
	<b>Caring for Patients With Pulmonary Disorders: Part 2</b>					Week 8
	<i>Mechanical Ventilation: Intubation, Trach Care, Settings and Troubleshooting</i>			78	1.3	
	<i>SAT and SBT, Neuromuscular Blockade (ICU), Ventilator Weaning, Extubation and Preventing Complications</i>			87.67	1.46	
	Pulmonary 2 Module Totals			165.67	2.76	
	<b>Caring for Patients With Neurologic Disorders: Part 1</b>					Week 9
	<i>Neurologic Assessment Techniques</i>			77.5	1.29	
	<i>Increased Intracranial Pressure Assessment, Brain Herniation and Death by Neurologic Criteria (ICU)</i>			71.75	1.19	
	<i>Neurologic Diagnostic Testing, Imaging and Lab Value Assessment</i>			43	0.72	
	<i>ICP Monitoring, Waveform Analysis (ICU) and Cerebral Fluid Devices</i>			69.2	1.15	
	Neurologic 1 Module Totals			261.45	4.35	

## ECCO Implementation Scenarios (cont.)

Scenario 7 (cont.)	ECCO module completion over 18-week period for ICU, PACU, cath lab, and interventional radiology RNs at nonprofit community hospital. Level 2 Trauma, Level 1 Stroke, and accredited chest pain and heart failure hospital. 16-week critical care orientation with 18 weeks to complete ECCO.					
<b>Sample Schedule (cont.):</b>	<b>Module Title</b> <i>Assignment Title</i>			<b>ICU Estimated Seat Time (Minutes)</b>	<b>ICU ANCC CE Hours</b>	<b>Timeline</b>
	<b>Caring for Patients With Neurologic Disorders: Part 2</b>					Week 10
	<i>Ischemic Stroke</i>			54.67	0.91	
	<i>Hemorrhagic Stroke</i>			88	1.46	
	<i>Traumatic Brain Injury and Spinal Cord Injuries</i>			90.33	1.51	
	<i>Other Pathological Conditions (Seizures and CNS Infections)</i> <i>Status Epilepticus (ICU only)</i>			33.33	0.56	
	Neurologic 2 Module Totals			266.33	4.44	
	<b>Hemodynamic Monitoring of Critically Ill Patients: Part 1</b>					Week 11
	<i>Basics of Hemodynamic Monitoring</i>			88.4	1.47	
	<i>Arterial Pressure Monitoring</i>			90.25	1.5	
	<i>Central Venous Catheters</i>			85	1.42	
	Hemodynamics 1 Module Totals			263.65	4.39	
	<b>Hemodynamic Monitoring of Critically Ill Patients: Part 2</b>					Week 12
	<i>Pulmonary Artery (PA) Catheters (ICU)</i>			90	1.5	
	<i>Cardiac Output, Functional and Invasive CO Monitoring</i>			75	1.25	
	<i>Assessing Oxygen Demand and Supply; Treating Imbalances</i>			65	1.08	
	<i>Pharmacologic Management: Preload, Afterload and Contractility Management</i>			82	1.37	
	Hemodynamics 2 Module Totals			312	5.2	

## ECCO Implementation Scenarios (cont.)

Scenario 7 (cont.)	ECCO module completion over 18-week period for ICU, PACU, cath lab, and interventional radiology RNs at nonprofit community hospital. Level 2 Trauma, Level 1 Stroke, and accredited chest pain and heart failure hospital. 16-week critical care orientation with 18 weeks to complete ECCO.			
Sample Schedule (cont.):	Module Title <i>Assignment Title</i>	ICU Estimated Seat Time (Minutes)	ICU ANCC CE Hours	Timeline
	<b>Caring for Patients With Gastrointestinal Disorders</b>			Week 13
	<i>Diagnostic Testing</i>	13.5	0.23	
	<i>Acute GI Bleeding</i>	45	0.75	
	<i>Liver Failure</i>	53.4	0.89	
	<i>Intra-abdominal Hypertension (ICU)</i>	45.3	0.75	
	<i>Acute Pancreatitis</i>	35.2	0.58	
	<i>Bowel Ischemia/Infarction, Ileus/Obstruction and Abdominal Trauma</i>	38.67	0.64	
	<i>Enteral and Parenteral Nutritional Support</i>	49.2	0.82	
	Gastrointestinal Module Totals	280.27	4.66	
	<b>Caring for Patients With Renal Disorders: Part 1</b>			Week 14
	<i>Assessing Kidney Function</i>	56	0.93	
	<i>Fluid and Electrolytes</i>	85.43	1.42	
	<i>Acute Kidney Injury, Acute Tubular Necrosis and Contrast-Induced AK</i>	64.29	1.07	
	<i>Chronic Kidney Disease, Hemodialysis, Peritoneal Dialysis</i>	49.43	0.82	
	Renal 1 Module Totals	255.15	4.24	
	<b>Caring for Patients With Renal Disorders: Part 2 Continuous Renal Replacement Therapy (CRRT) ICU only</b>			Week 15
	<i>CRRT: Principles; Patient, Filter and Circuit Maintenance</i>	72.8	1.21	
	<i>Assessing, Managing and Preventing Complications in Patients Undergoing CRRT</i>	97.5	1.62	
	Renal 2 (CRRT) Module Totals	170.3	2.83	

## ECCO Implementation Scenarios (cont.)

Scenario 7 (cont.)	ECCO module completion over 18-week period for ICU, PACU, cath lab, and interventional radiology RNs at nonprofit community hospital. Level 2 Trauma, Level 1 Stroke, and accredited chest pain and heart failure hospital. 16-week critical care orientation with 18 weeks to complete ECCO.			
Sample Schedule (cont.):	Module Title <i>Assignment Title</i>	ICU Estimated Seat Time (Minutes)	ICU ANCC CE Hours	Timeline
	<b>Caring for Patients With Endocrine Disorders</b>			Week 16
	<i>Endocrine System Assessment</i>	55.67	0.93	
	<i>Diabetes, Hypoglycemia, DKA and Hyperosmolar Hyperglycemic Syndrome (HHS)</i>	111.5	1.85	
	<i>Diabetes Insipidus, SIADH and Cerebral Salt Wasting</i>	50	0.83	
	<i>Hyper/Hypothyroidism</i>	30.33	0.5	
	<i>Managing Hyperglycemia</i>	37.33	0.62	
	Endocrine Module Totals	284.83	4.73	
	<b>Caring for Patients With Hematologic Disorders</b>			Week 17
	<i>Hematologic and Coagulation Lab Values</i>	51.75	0.86	
	<i>Thrombocytopenia, HIT, DIC</i>	58	0.97	
	<i>Anemia, VTE and Drug-Induced Coagulopathies</i>	43.5	0.73	
	<i>Transfusion Therapy Management</i>	35.2	0.58	
	Hematologic Module Totals	188.45	3.14	
	<b>Caring for Patients With Multisystem Disorders</b>			Week 18
	<i>Shock: Hypovolemic, Cardiogenic, Obstructive, Neurogenic, Anaphylactic</i>	100	1.67	
	<i>SIRS, Sepsis, Septic Shock, MODS ICU only</i>	113.33	1.88	
	<i>Behavioral</i>	58	0.97	
	<i>Necrotizing Fasciitis and Rhabdomyolysis</i>	50.8	0.85	
	Multisystem Module Totals	322.13	5.37	
	<b>TOTAL TIME for Entire Program in Hours</b>	75.64	75.45	18 weeks

## ECCO Implementation Scenarios (cont.)

<b>Scenario 8</b>	Long Term Acute Care Hospital (LTACH). ECCO ICU TRACK module completion over 7-week period for nurses hired to LTACH ICU. Includes distance learning webinars for nurses at a variety of facilities in different locations in the state.																										
<b>Completion Time:</b>	<p><i>75.64 hours over seven weeks</i></p> <ul style="list-style-type: none"> <li>• Week 1: Approximately 20 hours of ECCO, two hours of blended leaning webinars, plus one 12-hour clinical shift with a preceptor</li> <li>• Weeks 2 – 7: Approximately 10 hours of ECCO per week, 2-hours of blended learning webinars per week, plus 2-12 hour clinical shifts with a preceptor.</li> </ul>																										
<b>Sample Schedule:</b>	<table border="1"> <thead> <tr> <th style="background-color: #d9e1f2;">Module Title(s)</th> <th style="background-color: #d9e1f2;">Completion Due</th> <th style="background-color: #d9e1f2;">Estimated Time (Hours)</th> </tr> </thead> <tbody> <tr> <td>Global Perspectives: Parts 1 &amp; 2 Cardiovascular Disorders: Parts 1 &amp; 2 Cardiovascular Disorders: Part 3 (1<sup>st</sup> half)</td> <td>Week 1</td> <td>17.84 h</td> </tr> <tr> <td>Cardiovascular Disorders: Part 3 (2<sup>nd</sup> half) Cardiovascular Disorders: Part 4 Pulmonary Disorders: Part 1</td> <td>Week 2</td> <td>11.5 h</td> </tr> <tr> <td>Pulmonary Disorders: Part 2 Gastrointestinal Disorders</td> <td>Week 3</td> <td>7.42 h</td> </tr> <tr> <td>Renal Disorders: Parts 1 &amp; 2 Hematologic Disorders (1<sup>st</sup> half)</td> <td>Week 4</td> <td>8.64 h</td> </tr> <tr> <td>Hematologic Disorders (2<sup>nd</sup> half) Multisystem Disorders Neurologic Disorders: Part 1</td> <td>Week 5</td> <td>11.29 h</td> </tr> <tr> <td>Neurologic Disorders: Part 2 Endocrine Disorders</td> <td>Week 6</td> <td>9.17 h</td> </tr> <tr> <td>Hemodynamic Monitoring: Parts 1 &amp; 2</td> <td>Week 7</td> <td>9.59 h</td> </tr> </tbody> </table>			Module Title(s)	Completion Due	Estimated Time (Hours)	Global Perspectives: Parts 1 & 2 Cardiovascular Disorders: Parts 1 & 2 Cardiovascular Disorders: Part 3 (1 <sup>st</sup> half)	Week 1	17.84 h	Cardiovascular Disorders: Part 3 (2 <sup>nd</sup> half) Cardiovascular Disorders: Part 4 Pulmonary Disorders: Part 1	Week 2	11.5 h	Pulmonary Disorders: Part 2 Gastrointestinal Disorders	Week 3	7.42 h	Renal Disorders: Parts 1 & 2 Hematologic Disorders (1 <sup>st</sup> half)	Week 4	8.64 h	Hematologic Disorders (2 <sup>nd</sup> half) Multisystem Disorders Neurologic Disorders: Part 1	Week 5	11.29 h	Neurologic Disorders: Part 2 Endocrine Disorders	Week 6	9.17 h	Hemodynamic Monitoring: Parts 1 & 2	Week 7	9.59 h
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## Additional Information

If you didn't find a scenario to match your needs, or you still have questions about how to best implement ECCO, AACN offers the following resources:

### eLearning Community

ECCO's eLearning community of practice provides educators a platform to discuss and share best practices regarding their orientation needs and plans.

Link: <https://aacn.mobilize.io/registrations/groups/37093>

### AACN eLearning Customer Care

Email [e-learning@aacn.org](mailto:e-learning@aacn.org) or call 800-899-0573

### AACN Blog

Read about topics important to nurse managers and educators.

Link: <https://www.aacn.org/blog>.

### Webinars

Course experts address various topics to support your ECCO experience.

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