

### Setting where each Competency and its Performance Indicators Are to be Assessed and Addressed, Respectively

The following table delineates the competencies to be assessed, their corresponding performance indicators to be addressed, and the environment to be included in the curriculum. Check marks indicate the specific settings where each competency and performance indicator will be addressed. As a reminder, the competencies are what is being assessed and noted in the Competency Assessment Table.

- **Academic Programs:** The competencies and performance indicators specified for the academic setting must be integrated into the degree program. Supervised practice programs are encouraged to exceed ACEND's requirements and demonstrate these C and PIs in real-life practice whenever feasible.
- **Supervised Practice:** The competencies and performance indicators designated for supervised practice should ideally be addressed in the rotations with real-life practice. However, programs often encounter constraints that impact the availability of practice environments and resources. Consequently, some performance indicators may be addressed within academic programs, using new practice-based learning opportunities.

COMPETENCIES (C) (skills/abilities to be <u>assessed</u> ) and their PERFORMANCE INDICATORS (PIs) (skills/abilities to be <u>addressed</u> that define/describe the competency)		ENVIRONMENT where Cs are to be assessed and where PIs are to be addressed	
		Academic	Supervised Practice
<b>Unit 1: Community, Public Health, and Population Health</b>			
<b>1.1 Apply epidemiology concepts and evidence to evaluate the relationship between diet and disease development (S)</b>		✓	
1.1.1	Evaluate the strength of the association, sources of bias, and confounding factors (S)	✓	
1.1.2	Identify and assess patterns of disease to identify population health and nutrition needs (S)	✓	
<b>1.2 Apply knowledge of nutrition, health promotion, and disease prevention for populations (S)</b>		✓	
1.2.1	Identify population health issues and nutrition needs (S)	✓	
1.2.2	Identify, prioritize and implement health risk reduction strategies and policies (S)	✓	
1.2.3	Examine how globalizing processes impact nutrition, nutrition education, and nutrition-related diseases in developing countries (K)	✓	
<b>1.3 Use program planning steps to develop, implement, monitor, and evaluate community programs (D)</b>		✓	

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1.3.1	Conduct community and population-based needs assessments to develop a program considering all relevant factors (D)	✓	
1.3.2	Interpret and use nutrition surveillance and global health and safety data to identify population health needs (D)	✓	
1.3.3	Identify resources and partnerships to support the program's sustainability (D)		✓
1.3.4	Implement a program that considers relevant data and addresses the nutrition needs of the community or population (D)	✓	
1.3.5	Implement marketing strategies to promote nutrition products, programs, or services to target audiences effectively (D)		✓
1.3.6	Evaluate the program using intervention outcomes (D)	✓	
1.3.7	Communicate evaluation and outcomes, and make recommendations to promote change and justify the program (D)	✓	
<b>1.4 Develop and implement education to meet the needs of individuals, groups, and populations (D)</b>			✓
1.4.1	Apply education theories, adult learning, pedagogy, and education principles when developing, modifying, delivering, or implementing education materials (D)		✓
1.4.2	Translate basic to advanced food and nutrition science knowledge into understandable language tailored to the audience (D)		✓
1.4.3	Communicate complex nutrition information to broad and various audiences (D)		✓
<b>Unit 2: Nutrition Care Process and Medical Nutrition Therapy</b>			
<b>2.1 Integrate food and nutrition sciences into the nutrition care process (D)</b>			✓
2.1.1	Evaluate the evidence-based information on the relationship of molecular science(e.g., genes, proteins, metabolites) and microbes with disease states (S)	✓	
2.1.2	Integrate principles of anatomy, physiology, biochemistry, and food science to make decisions related to nutrition care (D)		✓
<b>2.2 Conduct a nutrition assessment for individuals and groups, including clients/patients with high acuity (D)</b>			✓
2.2.1	Implement nutrition assessment tools based on client/patient factors (D)		✓

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2.2.2	Collect and identify relevant and accurate subjective information from multiple sources (D)		✓
2.2.3	Conduct a nutrition-focused physical exam (D)		✓
2.2.4	Collect food and nutrition-related medical history, physical activity, and relevant determinants of health (D)		✓
2.2.5	Determine macronutrient, micronutrient, and fluid requirements (D)		✓
2.2.6	Conduct and interpret indirect calorimetry measurements (S)		✓
2.2.7	Perform blood pressure testing and conduct waived point-of-care laboratory testing (e.g. blood glucose or cholesterol) (D)		✓
2.2.8	Order and interpret biochemical and biospecimen tests to inform nutrition decisions (D)		✓
2.2.9	Identify signs and symptoms of nutrient deficiencies and excesses (D)		✓
2.2.10	Determine barriers that influence nutrition status (D)		✓
2.2.11	Determine the validity and reliability of nutrition assessment data (D)		✓
2.2.12	Identify appropriate mathematical formulas and perform calculations to determine nutrition requirements (D)		✓
<b>2.3 Develop a nutrition diagnosis according to Nutrition Care Process terminology (D)</b>			✓
2.3.1	Analyze and synthesize nutrition assessment data to inform nutrition diagnosis(es) (D)		✓
2.3.2	Devise a problem, etiology, sign and symptom (PES) statement and outline rationale for the diagnosis (D)		✓
2.3.3	Prioritize the nutrition diagnosis(es) (D)		✓
<b>2.4 Develop an individualized plan of care that incorporates medical nutrition therapy in collaboration with the client/patient, including those with high acuity (D)</b>			✓
2.4.1	Develop measurable goals that address nutrition care needs and nutrition diagnosis (D)		✓
2.4.2	Establish the need and evaluate indicators for nutrition support and therapeutic diets (D)		✓
2.4.3	Consider relevant factors when recommending the use of oral nutrition supplements (D)		✓

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2.4.4	Identify indications and contraindications of complementary and integrative nutrition (D)		✓
2.4.5	Evaluate the availability of services to support access to nutrition care and to help meet client's/patient's nutrition goals (D)		✓
<b>2.5 Incorporate genetic data into a personalized nutrition plan (S)</b>		✓	
2.5.1	Examine the influence of genetic variations (e.g., SNPs) on nutrient metabolism and diet response (K)	✓	
2.5.2	Analyze and interpret results from genetic and nutrigenetic tests (S)	✓	
2.5.3	Create dietary interventions for individuals with specific genetic variation (S)	✓	
2.5.4	Evaluate the benefits and limitations of precision nutrition tools (S)	✓	
<b>2.6 Implement and manage medical nutrition therapy interventions (D)</b>			✓
2.6.1	Order medical nutrition therapy to address nutrition goals (D)		✓
2.6.2	Integrate understanding of foundational sciences to manage medical nutrition therapy, diet, and disease management (D)		✓
2.6.3	Implement the nutrition intervention and nutrition plan of care with the client/patient and other team members (D)		✓
2.6.4	Document all elements of the nutrition care process following professional standards and organizational policies (D)		✓
<b>2.7 Monitor and evaluate the impact of nutrition intervention on the nutrition diagnosis (D)</b>			✓
2.7.1	Apply nutrition care outcome indicators to evaluate the impact of the nutrition intervention (D)		✓
2.7.2	Assess client's/patient's compliance with nutrition intervention (D)		✓
2.7.3	Make recommendations to modify the nutrition plan of care or nutrition intervention, considering barriers to meeting the nutrition goals (D)		✓
2.7.4	Summarize the impact of nutrition interventions on client/patient outcomes (D)		✓
2.7.5	Analyze reasons for deviation from expected nutrition outcomes (D)		✓

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2.7.6	Conduct coding and billing procedures to obtain payment for nutrition services under various healthcare payment models (D)		✓
<b>2.8 Use technology and devices to enhance practice (D)</b>			✓
2.8.1	Operate technology and devices to create, store, and retrieve nutrition information in a secure and ethical manner (D)		✓
2.8.2	Analyze data generated by technologies and devices to make evidence-based decisions (D)		✓
2.8.3	Evaluate the accuracy and reliability of information generated by artificial intelligence (D)	✓	
<b>Unit 3: Clinical Skills</b>			
<b>3.1 Prescribe and administer enteral and parenteral nutrition (D)</b>			✓
3.1.1	Apply medical nutrition therapy to order and manage nutrition support (D)		✓
3.1.2	Recommend vascular and enteral access for nutrition support, considering contraindications (S)		✓
3.1.3	Place and secure nasogastric or nasoenteric feeding tubes using proper techniques and ensuring client/patient safety (S)		✓
3.1.4	Verify the tube placement before use (S)		✓
3.1.5	Order and manage feeding and infusion schedule, rate, concentration, and composition to ensure adequate intake and client/patient safety (D)		✓
3.1.6	Monitor and manage fluid, electrolyte, acid-base balance, blood glucose, other laboratory values and tolerance to nutrition support (D)		✓
<b>3.2 Conduct nutrition counseling and therapy to promote optimal health outcomes in individuals and groups (D)</b>			✓
3.2.1	Assess the patient's/client's nutrition needs and appropriateness for the recommended counseling and therapy (D)		✓
3.2.2	Apply counseling principles and evidence-based practice when providing individual or group sessions (D)		✓

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3.2.3	Identify the indications, contraindications, benefits, risks, and limitations of counseling and therapy (D)		✓
3.2.4	Evaluate the effectiveness of the counseling and make necessary modifications (D)		✓
3.2.5	Develop counseling goals in collaboration with clients/patient (D)		✓
3.2.6	Assist with resolving barriers to achieve counseling and therapy goals (D)		✓
<b>3.3 Prescribe, recommend, and administer nutrition-related pharmacotherapy (S)</b>			✓
3.3.1	Demonstrate understanding of pharmacokinetics (absorption, clearance, medication metabolism, latency period, drug and supplement metabolism, accumulation, half-life) and routes of administration (S)	✓	
3.3.2	Analyze the impact of nutrition status and diet on pharmacodynamics and pharmacokinetics (S)	✓	
3.3.3	Assess client/patient factors to determine indications for nutrition-related pharmacotherapy (D)		✓
3.3.4	Consider client/patient factors, nutrition impact, indications, side effects, contraindications, benefits, risks, alternatives, and foundational sciences when prescribing, recommending, and administering nutrition-related medication therapy (D)		✓
3.3.5	Apply the principles of safe medication administration (S)		✓
3.3.6	Create the nutrition-related pharmacotherapy plan, such as modifications to bowel regimens, carbohydrate-to-insulin ratio, or B12 or iron supplementation (D)		✓
3.3.7	Monitor the response and the effects of nutrition-related medications on the individual and take action to make modifications or adjustments (S)		✓
<b>3.4 Perform intramuscular, subcutaneous and intravenous injections for nutrition-related pharmacotherapy (e.g., vitamins or insulin) (S)</b>		✓	
3.4.1	Apply knowledge of anatomy to landmark different injection or infusion sites and the rationale and indication for choosing the site (K)	✓	
3.4.2	Discuss with the client/patient the substance's benefits, risks, anticipated outcomes and alternative approaches before initiating the injection or infusion (K)	✓	

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3.4.3	Demonstrate an awareness of safe substance administration practices including confirming the correct client/patient, substance, dose, route, time and awareness of contraindications (S)	✓	
3.4.4	Calculate and regulate flow rates based on client/patient factors and the substance to be infused (S) why not in SP?	✓	
3.4.5	Identify the correct injection site, accurately draw the substance, and administer the injection using the proper technique (e.g., Z-track) while adhering to aseptic and infection control practices (K)	✓	
3.4.6	Perform intradermal, intramuscular and subcutaneous injections, ensuring patient/client safety and proper substance administration and absorption (S)	✓	
3.4.7	Document the administration, including the substance administered, dosage, route, site, and patient responses (S)	✓	
<b>3.5 Perform swallowing assessments to determine safety issues (S)</b>			✓
3.5.1	Identify indications for the swallowing assessment based on client/patient risk factors and swallowing difficulties (K)	✓	
3.5.2	Identify etiological risk categories, including evaluating cranial nerve function and oral motor assessment (K)	✓	
3.5.3	Assess signs of aspiration and dysphagia, such as cough, changes in voice post swallow, and decrease in arterial blood oxygenation (S)		✓
3.5.4	Perform a water swallowing test to screen for aspiration and dysphagia (S)		✓
3.5.5	Contribute as a member of the interdisciplinary team in a diagnostic swallowing study to assess swallowing mechanics (S)		✓
<b>3.6 Order and interpret imaging to identify the etiology of nutrition problems and to inform nutrition decisions (K)</b>		✓	
3.6.1	Understand the indications, limitations, and protocols for various imaging modalities (e.g., DEXA, x-ray, CT, MRI) (K)	✓	
3.6.2	Select the imaging modality based on the clinical question and client/patient characteristics (e.g., age, medical history, allergies) (K)	✓	

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3.6.3	Analyze images (e.g. enteral and parental placement, vascular access/line placement, contraindications to enteral nutrition, and body composition) to identify relevant findings, differentiate between normal and abnormal findings, and assess image quality (K)	✓	
3.6.4	Integrate imaging findings or written results with other clinical data and tests to arrive at a comprehensive nutrition diagnosis (S)		✓
<b>Unit 4: Leadership and Management</b>			
<b>4.1 Apply principles of organizational planning (D)</b>			✓
4.1.1	Develop an operational plan that considers budget, inventory control, staffing needs, and daily tasks (D)		✓
4.1.2	Align plans with the organizational strategic plan, mission, and vision (D)		✓
4.1.3	Assign responsibilities to various team members according to role and competence (D)		✓
4.1.4	Set and monitor clear targets for team members, departments, and the organization aligned with common objectives and goals (D)		✓
4.1.5	Demonstrate an understanding of how individuals and groups interact within the organization (D)		✓
4.1.6	Evaluate the plan to make modifications to ensure positive outcomes and to meet goals and objectives (D)		✓
4.1.7	Collect and analyze data to evaluate outcomes and determine if established goals and objectives are met (D)		✓
4.1.8	Develop and implement continuous quality management or improvement plans		✓
<b>4.2 Apply principles of financial management and productivity (D)</b>			✓
4.2.1	Prioritize activities to manage time and workload effectively (D)		✓
4.2.2	Collect, understand, and analyze financial data to support fiscally responsible decision-making (D)		✓
4.2.3	Analyze components of a productivity system, including units of service and work hours, and make recommendations (D)		✓



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4.2.4	Analyze the effectiveness of the budget (D)		✓
4.2.5	Engage in, manage, or lead human resource activities, adhering to applicable laws and regulations (D)		✓
<b>4.3 Demonstrate leadership skills to guide practice (D)</b>			✓
4.3.1	Apply leadership and management theories and frameworks to inform decisions and behaviors (D)		✓
4.3.2	Demonstrate ethical behaviors in accordance with the professional Code of Ethics (D)		✓
4.3.3	Respond to social cues and group dynamics to facilitate desired outcomes (D)		✓
4.3.4	Apply principles of emotional intelligence, including self-awareness, self-management, social awareness, and relationship management (D)		✓
4.3.5	Apply conversational and interpersonal skills (D)		✓
4.3.6	Reflect on situations and critically evaluate outcomes and possible alternate courses of action (D)		✓
4.3.7	Provide and receive constructive feedback to support professional development and seek feedback for personal growth (D)		✓
4.3.8	Model behaviors that maximize group participation by consulting, listening, and communicating clearly (D)		✓
<b>4.4 Use effective communication, collaboration, and advocacy skills (D)</b>			✓
4.4.1	Use effective and ethical communication skills and techniques to achieve desired goals and outcomes (D)		✓
4.4.2	Facilitate intraprofessional and interprofessional collaboration (D)		✓
4.4.3	Participate in advocacy activities to change or promote new legislation and regulations (D)		✓
4.4.4	Use communication skills to influence or produce a desired outcome during negotiations or conflict resolution discussions (D)		✓

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4.4.5	Communicate in a responsive, responsible, respectful, and compassionate manner (D)		✓
<b>4.5 Assume professional responsibilities to provide safe, ethical, and effective nutrition services (D)</b>			✓
4.5.1	Engage in self-reflective practice activities to develop and maintain ongoing competence and professional behaviors (D)		✓
4.5.2	Consult and refer to other health professionals when situations or client/patient needs are beyond personal competence (D)		✓
4.5.3	Adhere to nutrition-related legislation, regulations, and standards of practice (D)		✓
4.5.4	Apply client/patient-centered principles to all activities and services (D)		✓
4.5.5	Identify and take steps to manage unethical, incompetent, or unsafe behavior (D)		✓
4.5.6	Practice in a manner that respects others (D)		✓
4.5.7	Maintain confidentiality and security when sharing, transmitting, storing, and managing protected health information (D)		✓
<b>Unit 5: Critical Thinking and Research</b>			
<b>5.1 Incorporates critical thinking skills (D)</b>		✓	
5.1.1	Use critical thinking through a systematic process that evaluates multiple variables and leads to an informed decision (D)	✓	
5.1.2	Incorporate the thought process used in critical thinking models and frameworks (e.g., decision trees, theories, system analysis, ethical decision-making framework) (D)	✓	
<b>5.2 Conduct research using appropriate scientific design and methods (D)</b>		✓	
5.2.1	Articulate a clear research question or problem and formulate a hypothesis (D)	✓	
5.2.2	Identify and demonstrate appropriate research methods (D)	✓	
5.2.3	Interpret and apply research ethics and responsible conduct in research (D)	✓	
5.2.4	Collect and retrieve data using a variety of methods and technologies (D)	✓	
5.2.5	Analyze research data using appropriate data analysis techniques (D)	✓	

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5.2.6	Translate and communicate research findings through a variety of media (D)	✓	
<b>5.3 Apply current research and evidence-based practice to services (D)</b>			✓
5.3.1	Use research terminology when communicating with other professionals and publishing research (D)		✓
5.3.2	Analyze and formulate a professional opinion based on current research, evidence-based findings, and experiential learning (D)		✓
5.3.3	Critically examine and interpret research and evidence-based information to determine the validity, reliability, and credibility of information (D)		✓