

Crop Production

Core Knowledge Areas and Knowledge Requirements for Professional Practice in the Practice Area.

To qualify for the *Crop Production* practice area, a minimum four of six Core Knowledge Areas (CKAs) must be met (AIA CC Policy #21-001) of which at least two must be from the *Soils, Crops, and Pests* CKAs. Each knowledge requirement must consist of at least 3-credit equivalent of learning. A regulated member's scope of practice is restricted to those CKAs for which the member qualifies.

Core Knowledge Area	Required Subject Matter Areas (Knowledge Requirements)
Crops	<ul style="list-style-type: none"> • Introductory Crop Science • Crop Nutrition OR Crop Physiology <p><i>At least one from the following focus areas*:</i></p> <ul style="list-style-type: none"> • Annual Crops (Cereals, Oilseeds, Pulses) • Perennial Crops (Forages) • Horticultural Crops (Fruits, Vegetables, Ornamentals) • Agroforestry
Soils	<ul style="list-style-type: none"> • Introductory Soil Science • Soil Fertility <p><i>At least one from the following:</i></p> <ul style="list-style-type: none"> • Soil Physics • Soil Chemistry • Soil Microbiology • Soil Conservation and Management
Water	<ul style="list-style-type: none"> • Irrigated or Dryland Crop Water Use • Irrigation Management**
Pests	<p><i>At least one from the following***:</i></p> <ul style="list-style-type: none"> • Weed Science • Entomology • Plant Pathology
Economics	<ul style="list-style-type: none"> • Introductory Agricultural Economics
Research and Development^z	<ul style="list-style-type: none"> • Experimental Design^z • Statistical Methods^z • <i>Knowledge in Core Knowledge Area within which member is conducting research^z</i>

* Corresponding to the member's practice in annual crops, perennial crops, horticultural crops or agroforestry.

** Irrigation management is required for those working in irrigated cropping systems.

*** At least one of the three corresponding to the focus of the member in either weed management, insect management or disease management.

^Z Required for members conducting research trials.

Knowledge of a subject matter area may be based on an individual course or be part of multiple courses. For example, knowledge in crop nutrition may be obtained via a crop nutrition course or through portions of other courses such as introductory plant science, crop physiology, or crop specific courses.

Subject matter at a senior level can be substituted for that at an introductory level.