

A **Practice Area (PA)** is defined as an area of expertise that requires specialized knowledge, skills and experience. PAs identify functional areas of practice within the profession of agrology as uniquely as possible.

NOTE: Specific to practice area selection, members must have a minimum of 3 years' direct experience for each practice area declared to be able to practice independently in that practice area. This is different from the Canadian agrology-related work experience for the In-Training Program where 2-5 years determines eligibility to apply for designation change.

Detailed practice standards describe the knowledge, experience, skill sets and performance standards for professional practice within a practice area. Six detailed practice standards exist for the practice areas listed in the table below.

Practice Area	Practice Standard
Assessment, Remediation and Management of Contaminated Land	This Practice Area has a new Practice Standard, click here for the standard.
Crop Production	This Practice Area has a new Practice Standard, click here for the standard.
Greenhouse Gas Assessment and Management	This Practice Area has a new Practice Standard, click here for the standard.
Land Reclamation	This Practice Area has a new Practice Standard, click here for the standard.
Rangeland and Pasture Management	This Practice Area has a new Practice Standard, click here for the standard.
Wetland and Riparian Areas	This Practice Area has a new Practice Standard, click here for the standard.

As the institute develops practice standards for the remaining 12 practice areas they will be added to the table above. Until a practice area has an existing practice standard, the core knowledge table will continue to provide guidance to members on knowledge requirements for each practice area.

Practice Area	Core Knowledge Areas					
Agricultural and Natural Resource Economics	Intermediate Economics OR Agricultural/Real Estate Economics OR Natural Resource/ Environmental Economics	Accounting OR Financial Management OR Risk Management	Management Information Systems OR Business Governance systems OR Resources Management	Managerial and Organizational Behavior OR Consumer Studies OR Marketing and Trading	Rural Sociology OR Adult Education and Extension OR Communications	Production Systems OR Production Systems Management

Animal Production	Animal Physiology OR Animal Behaviour	Animal Nutrition OR Animal Metabolism	Genetics OR Molecular Genetics and Heredity	Animal Production OR Grassland and Rangeland Management	Animal Welfare OR Animal Health OR Animal Diseases	Animal Reproduction OR Animal Breeding
Biophysical Classification and Evaluation	Land Evaluation OR Soil Conservation and Management OR Soil Genesis and Classification	Geomorphology OR Surficial Geology OR Soil Chemistry	Ecology OR Plant Taxonomy	Vegetation Assessment and Management OR Plant Physiology OR Plant Taxonomy	Remote Sensing OR Air Photo Interpretation OR Geospatial Systems	Water-Landform Relationships OR Hydrology OR Soil Physics
Biosystems, Biosolids, Compost and Manure Management	Compost Development and Management OR Digestion Systems OR Energy and Biogas Production	Residuals (Waste) Management OR Materials Handling and Processing OR Odour Control	Land Application OR Livestock System OR Cropping System	Biochemistry OR Organic Chemistry OR Inorganic Chemistry	Soil Chemistry OR Soil Fertility OR Soil Physics	Microbiology OR Plant/Soil Relations OR Contaminant Fate and Behaviour
Environmental Impact Assessment and Mitigation Planning	Environmental Impact Assessment Methodology OR Environmental Management Systems OR Mitigation Planning	Soil Conservation/ Reclamation OR Soil Classification OR Soil Chemistry	Hydrology OR Water Quality OR Erosion Control	Environmental Regulations OR Project Management OR Environmental Planning	Ecology OR Biophysical Inventory	Socio- Economic Planning OR Environmental Economics OR Stakeholder Engagement
Environmental Monitoring	Air Sciences OR Soil Sciences OR Vegetation Sciences	Water Sciences OR Hydrogeology OR Hydrology	Site Assessment OR Ecology	Environmental Law OR Environmental Regulations	Sampling Design and Techniques	Risk Assessment OR Toxicology
Food Development and Processing	Food Processing Technologies OR Food Product Development	Food Policy OR Food Legislation	Food Nutrition OR Food Biochemistry	Food Microbiology	Quality Assurance OR Food Safety Systems	Food Chemistry
Land Conservation and Management	Soil Genesis and Classification OR Soil Physics	Land Evaluation OR Soil Conservation and Management OR Land Use Planning	Remote Sensing OR Air Photo Interpretation OR Geospatial Information	Hydrology	Soil Fertility OR Soil Chemistry	Plant Ecology OR Plant Taxonomy
Management – see below	Strategic Planning Training and/or Experience	Human Resource Management Training and/or Experience	Management OR Executive Management Formal Training	Project Management Training and/or Experience	Finance OR Budget Training and/or Experience	Formal Education in Business Management, HR Management, Project Management
Regulatory Support and Consultation	Agricultural, Environmental and Food Legislation OR Policy	Stakeholder Communications OR Stakeholder Consultation and Mediation	Resource Management OR Environmental Protection OR Impact Assessment	Crop Production OR Animal Production OR Wildlife Management OR Food Production	Conservation Planning OR Reclamation Planning OR Systems Planning	Regulatory Compliance Reporting

Rural Development and Support	Extension and Adult Learning OR Communications OR Community Development	Intermediate Economics OR Applied Economics OR Regulation and Policy Analysis	Business and Information Systems OR Institutional Leadership and Governance OR Aid Policy Analysis	Environmental Sociology OR Rural Sociology OR Cultural History	Rural Landscapes Design OR Information Systems	Production systems OR Risk Management
Water Resources Planning and Management	Soil Science OR Earth Sciences OR Physical Geography	Ecology OR Agronomy	Watershed Modeling OR Environmental Policy	Water Quality OR Hydrology	Municipal/Provincial/ Federal Legislation OR Social Responsibility	Natural Resource Management OR Environmental Planning OR Watershed Management

Management Description

Management entails designing, overseeing and managing the work processes in the agricultural or environmental services sectors. The Competence Committee will review each file on a case by case basis with the following items to be considered for effective competence in this PA: The Competence Committee will review each file on a case by case basis with the following items to be considered for effective competence in this PA:

- A minimum of 5 years' technical experience in any given PA.
- Continuing professional development (CCP) that demonstrates management competence
- Supervision of other professionals on an ongoing basis (does not apply to basic supervision of field technicians doing routine work).