

Knowledge Areas (KAs)

Select KAs appropriate to Plan of Work and assign %-age to each. Total must = 100%

- 101. Appraisal of Soil Resources
- 102. Soil, Plant, Water, Nutrient Relationships
- 103. Management of Saline and Sodic Soils and Salinity
- 104. Protect Soil from Harmful Effects of Natural Elements
- 111. Conservation and Efficient Use of Water
- 112. Watershed Protection and Management
- 121. Management of Range Resources
- 122. Management and Control of Forest and Range Fires
- 123. Management and Sustainability of Forest Resources
- 124. Urban Forestry
- 125. Agroforestry
- 131. Alternative Uses of Land
- 132. Weather and Climate
- 133. Pollution Prevention and Mitigation
- 134. Outdoor Recreation
- 135. Aquatic and Terrestrial Wildlife
- 136. Conservation of Biological Diversity
- 141. Air Resources Protection and Management
- 201. Plant Genome, Genetics, and Genetic Mechanisms
- 202. Plant Genetic Resources
- 203. Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- 204. Plant Product Quality and Utility (Preharvest)
- 205. Plant Management Systems
- 206. Basic Plant Biology
- 211. Insects, Mites, and Other Arthropods Affecting Plants
- 212. Pathogens and Nematodes Affecting Plants
- 213. Weeds Affecting Plants
- 214. Vertebrates, Mollusks, and Other Pests Affecting Plants
- 215. Biological Control of Pests Affecting Plants
- 216. Integrated Pest Management Systems
- 301. Reproductive Performance of Animals
- 302. Nutrient Utilization in Animals
- 303. Genetic Improvement of Animals
- 304. Animal Genome
- 305. Animal Physiological Processes
- 306. Environmental Stress in Animals
- 307. Animal Management Systems
- 308. Improved Animal Products (Before Harvest)
- 311. Animal Diseases
- 312. External Parasites and Pests of Animals
- 313. Internal Parasites in Animals
- 314. Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals
- 315. Animal Welfare/Well-Being and Protection
- 401. Structures, Facilities, and General Purpose Farm Supplies

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- 402. Engineering Systems and Equipment
- 403. Waste Disposal, Recycling, and Reuse
- 404. Instrumentation and Control Systems
- 405. Drainage and Irrigation Systems and Facilities
- 501. and Improved Food Processing Technologies
- 502. and Improved Food Products
- 503. Quality Maintenance in Storing and Marketing Food Products
- 504. Home and Commercial Food Service
- 511. and Improved Non-Food Products and Processes
- 512. Quality Maintenance in Storing and Marketing Non-Food Products
- 601. Economics of Agricultural Production and Farm Management
- 602. Business Management, Finance, and Taxation
- 603. Market Economics
- 604. Marketing and Distribution Practices
- 605. Natural Resource and Environmental Economics
- 606. International Trade and Development
- 607. Consumer Economics
- 608. Community Resource Planning and Development
- 609. Economic Theory and Methods
- 610. Domestic Policy Analysis
- 611. Foreign Policy and Programs
- 701. Nutrient Composition of Food
- 702. Requirements and Function of Nutrients and Other Food Components
- 703. Nutrition Education and Behavior
- 704. Nutrition and Hunger in the Population
- 711. Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
- 712. Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
- 721. Insects and Other Pests Affecting Humans
- 722. Zoonotic Diseases and Parasites Affecting Humans
- 723. Hazards to Human Health and Safety
- 724. Healthy Lifestyle
- 801. Individual and Family Resource Management
- 802. Human Development and Family Well-Being
- 803. Sociological and Technological Change Affecting Individuals, Families, and Communities
- 804. Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures
- 805. Community Institutions, Health, and Social Services
- 806. Youth Development