PRECISION AGRICULTURE TECHNICIAN

Understands and applies precision agriculture technologies for production efficiency and/or to provide services for the agricultural industry; to achieve profitability and environmental sensitivity.

General Areas of Competence

A. GENERAL AGRICULTURE	A-1 Recognize the effects of weather on agriculture	A-2 Demonstrate basic knowledge of crop production/management	A-3 Demonstrate basic knowledge of livestock production/ management	A-4 Manage selection of agricultural inputs	A-5 Recognize marketing strategies for agricultural products	
B. COMPUTER COMPETENCY	B-1 Install software programs	B-2 Use software programs (e.g., word processing, spreadsheet, database, etc.)	B-3 Interface computer peripherals	B-4 Retrieve Internet data		
C. MATH	C-1 Calculate weights and measures (basic math)	C-2 Calculate formulas (e.g., rate, velocity, density, etc.) (algebra)	C-3 Determine area, volume, etc. (geometry)	C-4 Analyze statistical data (statistics)		
D. GENERAL SCIENCE	D-1 Demonstrate environmentally-sound agricultural practices	D-2 Recognize chemical and bio-chemical interactions	D-3 Recognize importance of genetics in animals and plants	D-4 Interpret weather patterns		
E. ANALYTICAL SKILLS	E-1 Apply logic	E-2 Solve problems/troubleshoot	E-3 Manage data	E-4 Explain/summarize data		
F. SOCIAL BEHAVIOR	F-1 Communicate effectively (writing, speaking, presenting, etc.)	F-2 Recognize and deal with diverse personalities	F-3 Present oneself effectively (e.g., dress, hygiene, proper etiquette, etc.)	F-4 Display appropriate ethics, morality, and honesty	F-5 Practice good work ethics	F-6 Practice effective sales techniques F-7 Manage financial matters
G. AGRICULTURAL MECHANICS	G-1 Understand and/or perform basic electrical/mechanical functions	G-2 Practice mechanical and electrical safety	G-3 Repair/maintain equipment			
H. AGRICULTURAL MAPPING	H-1 Demonstrate and/or utilize GPS/GIS technology	H-2 Draw/read maps (e.g., contour, soil, and plat maps)	H-3 Associate management decisions with map information and government regulations (e.g., production practices, tillage practices, manure disposal, etc.)	H-4 Identify/use legal land descriptions		
I. TASK MANAGEMENT	I-1 Establish a resource information system	I-2 Pay attention to details	I-3 Utilize time effectively and efficiently	I-4 Manage documentation	I-5 Design and manage activity schedules	
J. LAWS AND REGULATIONS	J-1 Be aware of, and adhere to, current applicable government regulations					

June 19 and 20, 1997

PANEL MEMBERS:
Kevin Borts, Farmer, Kevin and Jan Borts, Mingo, Iowa
Dale Farnham, Extension Agronomist, Iowa State University, Ames, Iowa
Robert Fulwider, President, Contour Consulting Group, Ottawa, Illinois
Ken Hofer, President, Park Farms Computer Systems, DeWitt, Iowa
Ron Irvin, Extension Field Specialist (Livestock), Iowa State University Extension, Cedar Rapids, Iowa
Bill Lotz, Field Specialist, Iowa State Agronomy Extension, Independence, Iowa
Keith Whigham, Extension Agronomist, Iowa State University, Ames, Iowa

CO-FACILITATORS/RECORDERS:
Melonee Docherty, Instructional Designer, Advanced Technology Environmental Education Center (ATEEC), Bettendorf, Iowa
Bev Hansen, Instructional Designer, Advanced Technology Environmental Education Center (ATEEC), Bettendorf, Iowa

COORDINATOR:
Catherine Zeman, Program Manager, Recycling and Reuse Technology Transfer Center (RRTTC), University of Northern Iowa, Cedar Falls, Iowa