

SOLID WASTE TECHNICIAN

The Solid Waste Technician performs entry-level tasks including equipment operation and routine maintenance, facility construction and maintenance, inspection, testing, materials processing, recordkeeping, customer service, and regulatory compliance in order to meet employer and regulatory requirements.

General Areas	Specific Tasks or Competencies						
A. Integrated Operations	A-1 Identify & describe basic principles & practices of source reduction	A-2 Identify & describe basic principles & practices of recycling (e.g., collection, processing, marketing)	A-3 Identify & describe basic principles & practices of waste collection / transfer	A-4 Identify & describe basic principles & practices of household hazardous waste collection	A-5 Identify & describe basic principles & practices of composting (e.g., feed stocks and bulking agents; process management including C:N ratios, moisture & oxygen maintenance, Process for Reduction of Pathogens, & maturing; nuisance control; & marketing)	A-6 Identify & describe basic principles & practices of incineration / WTE	A-7 Identify & describe basic principles & practices of landfilling (e.g., storm water collection / treatment, leachate collection / treatment, and landfill gas collection / electricity generation, airspace management)
	A-8 Identify & describe basic principles of waste characterization analysis						
	B. Facilities Management	B-1 Work with regulatory agencies	B-2 Apply regulatory requirements	B-3 Manage waste collection	B-4 Perform monitoring & reporting	B-5 Direct facility traffic	B-6 Sort waste
	B-8 Off-load waste	B-9 Load shipping vehicles	B-10 Perform spot loads (i.e., load	B-11 Monitor transfer activities	B-12 Assist customers	B-13 Prepare operations reports	B-14 Perform site facility inspection.

			checks)			& billing	
	B-15 Determine feed stock mix & ratio	B-16 Perform public education activities	B-17 Monitor contractor activities	B-18 Perform collection services	B-19 Perform facility maintenance & housekeeping		
C. Equipment Operations	C-1 Identify types of heavy equipment used in the SW industry & describe their basic operations	C-2 Weigh scale in/scale out	C-3 Operate baler	C-4 Mix feed stock ratio, stack, and turn	C-5 Manage processes (i.e., mixes, c:n, odor control, quality control)	C-6 Keep track of equipment maintenance records (e.g., bidding specs)	
D. Safety	D-1 Interpret & implement OSHA regulations to SW operations & facilities (e.g., ensure compliance with safety policies, maintain personnel safety & training records PPE)	D-2 Identify & implement HazCom Standard (e.g., MSDS, Right-to-Know)	D-3 Identify & describe the use & maintenance of PPE (e.g., hearing / sound suppression, respiratory, eye, foot, hand, and head protection)	D-4 Implement universal precautions to reduce risk from bloodborne pathogens	D-5 Interpret & implement emergency response procedures and requirements	D-6 Identify & describe the use of emergency response equipment (e.g., eyewash, fire extinguishers, fire blankets)	D-7 Describe & apply first aid procedures
	D-8 Interpret & apply lockout / tagout procedures (including the control of hazardous energy)	D-9 Interpret & implement confined space entry procedures	D-10 Practice appropriate ergonomics (e.g., proper lifting procedures)	D-11 Practice safety precautions for working around heavy equipment / vehicles			
E. Program Management	E-1 Describe overview of	E-2 Participate in budget	E-3 Monitor staff/contractor	E-4 Identify & describe	E-5 Track program	E-6 Apply general principles of	E-7 Evaluate the effects of regiona

	SW industry (e.g., history, recent & future trends, key players)	development	program performance	planning and funding activities for SW facilities and programs (e.g., revenue strategies, bonding, loans)	expenditures	macro- & micro-economics to local SW facility	economics on local SW facility
	E-8 Participate in strategic planning						
F. Political Processes	F-1 Describe types of SW agencies & their functions (e.g., 28E, special districts)	F-2 Interpret & implement federal legislative & regulatory processes (e.g., EPA regulations for permits, waste stream approvals)	F-3 Interpret & implement local legislative & regulatory processes (e.g., planning, zoning, local ordinances)	F-4 Interpret & implement state / regional legislative & regulatory processes	F-5 Interpret & implement policymaking & chains of command		
G. Public Relations	G-1 Perform customer services (e.g., phone calls, problem-solving, information distribution, surveys for programs / awareness / attitudes)	G-2 Assist customer at the point of disposal (e.g., waste type identification, directions for disposal, tipping, accepting payment)	G-3 Conduct public education activities & engage in public speaking (e.g., mandatory blue-bag systems, composting programs, household hazardous waste programs, waste reduction/diversion)	G-4 Participate in public hearings			
H. Technical Writing	H-1 Gather & prepare	H-2 Develop written policies &	H-3 Prepare technical	H-4 Prepare requests for	H-5 Prepare grant reports &	H-6 Prepare internal & external	H-7 Prepare press releases & public

information for Governing Boards	procedures	correspondence to regulators	proposals, qualifications, & bids	evaluations	memorandums	service announcements
H-8 Gather data & prepare incident reports	H-9 Gather data & prepare required daily inspection reports					

February 26 thru March 5, 2001

DACUM LOCATION: Conducted online for Hazardous Materials Research Institute (HMTRI) at Kirkwood Community College in Cedar Rapids, IA

DACUM Workshop Panel:

Dennis Fleming, Chief of Solid Waste, Charles County Department of Public Facilities, La Plata, MD

Charles Goddard, Administrator, Clinton County Area Solid Waste Agency, Clinton, IA

Ed Hartman, Operations Manager, BFI Pine Bend Landfill, Inner Grove Heights, MN

Mary McReynolds, Planner, St. Louis County Solid Waste Department, Virginia, MN

Jane Mercurio, Graduate Engineer, St. Louis County Public Works Department, Virginia, MN

Scott Smith, Landfill Administrator/Recycling Coordinator, Boone County Landfill, IA

Doc St. Clair, Environmental Affairs Manager, SKB Environmental Inc., St. Paul, MN

DACUM Coordinator: **Doug Elam**, HMTRI at Kirkwood Community College, Cedar Rapids, IA

DACUM Facilitators: **Melonee Docherty** and **Gloria Hanne**, Advanced Technology Environmental Education Center (ATEEC) and HMTRI, Bettendorf, IA

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Patent Pending 2000/2001, ATEEC/HMTRI