



## Gujarat Council of Vocational Training Gandhinagar



C-465

1. Name of Course:

Solid Waste Management Technician

N.C.O. No. for Skills Covered:  
(Please refer National Classification of  
Occupations -2004 available  
on www.dget.nic.in)


2. Engineering OR Non-engineering: Engineering

3. No. of students per batch: 20

4. Duration in Hours. : 160(Theory)+282 (Practical) = 442 hrs

5. Duration in Month: 3 @ 20 hours/Week.

6. Examination Scheme:

No.	Name of Subject	Teaching Hours during full course.	Maximum Marks. (Excluding Sessional)	Minimum Marks required for Passing (Excluding Sessional).	Sessional Marks if any.
Subject-1	Solid waste generation and management (Theory)	20			
	Practical	8			
Subject-2	Domestic waste (Municipal Waste) theory	20			
	Practical	12			
Subject-3	Industrial Hazardous waste (Theory)	20			
	Practical	12			
Subject-4	Biomedical waste (Theory)	20			
	Practical	8			
Subject-5	Electronic waste (Theory)	20			
	Practical	8			
Subject-6	Battery waste (Theory)	20			





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	Practical	8			
Subject-7	Construction and Demolition waste (Theory)	20			
	Practical	8			
Subject-8	Soft skills (Theory)	20			
	Practical	10			
Subject-9	Field work	96			
	Total (Theory)	160	100	40	20
	Total (practical)	282	300	180	60
	Grand total	442			

### 7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	10 <sup>th</sup> Pass / sponsored candidate from industry (8 <sup>th</sup> Pass+3yrs actual exp)
Desirable:	ITI Engineering Trade pass

### 8. Minimum qualification for Trainer:

Minimum qualification (Essential):	BE/ME/Diploma /MSc/Bsc
Desirable:	Environment sector experience





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9. Proposed Syllabus Committee Member:

Sr. No.	Name	Organization	Designation	Technical Qualification	Experience in Years	Signature
1	Shri Bharat Jain	GCPC	Member Secretary			
2	Shri Shailesh Patwari	NEPL	Chairman			
3	Shri Shankarbhai Patel	GESCSL	Chairman			
4	Shri Babubhai Patel	NIA-CETP	Chairman			
5	Shri N. S. Varundani	LD Engineering College	HOD, Env Engineering			
6	Shri. S. M. Jha		Retd. SES, GPCB			
7	Dipan Shah	Society for Environment Protection	Managing Coordinator	B. Tech	10 yrs	

10. Terminal Skills of trainee: (Should be well defined and having reference to NCO):

The trainee, after successful completion of training, will have following skills...

1. Should have broader and clear understanding of Environment, current concerns and issue of waste.
2. Can identify various types of waste, treatment required and hazards it may pose to human and environmental health.
3. Well acquaint with various types of on-site waste treatments and able to conduct necessary laboratory and onsite tests, procedures and processes.
4. Should be well versed with rules and regulations concerning waste handling, treatment and discharge.
5. Should be able to handle the operations a safely including personal and environmental safety.





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6. Should be able to do basic maintenance of the site, identify errors and report them to appropriate authorities.

7.

(please attach separate sheet, if more space is required)

11. Approximate cost of Tools  
/ Equipments / Machinery for  
starting one batch of the course: -

Rupees

Reference Year

12. Area required for practical / Workshop for one batch.

.....50..... Sq. Meter

13. Minimum Power connection required

.....15 hp.....

14.1 No of items in Standard list of Machinery :

14.1.1. Page NO from \_\_\_ to \_\_\_.

14.2 No of items in Standard list of Shop outfit :

14.2.1. Page NO from \_\_\_ to \_\_\_.

14.3 No of items in Standard list of Trainee Toll-Kit :

14.3.1. Page NO from \_\_\_ to \_\_\_.

\*\*\*\*\* FOR OFFICIAL USE \*\*\*\*\*





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Approved by GCVT in Governing Body meeting on

21-06-2012

Syllabus implemented w.e.f. admission session

Next session

Revision History :

1. Revision No. .... Revision Date.
2. Revision No. .... Revision Date
3. Revision No. .... Revision Date.



WEEK	TOPIC	THEORY	FIELD WORK
	SOLID WASTE MANAGEMENT		1 month
	Solid waste generation and management	20	8
	Types of waste		
	Domestic waste (Municipal Waste)	20	12
	Concept and present status		
	MSW rules		
	Management and Disposal criteria		
	Waste characteristic and composition		
	Landfill site development		
	Waste minimization Techniques		
	Recycling and reuse of waste		
	Impact on Environment		
	Industrial Hazardous Waste	20	12
	Concept and present status		
	Hazardous waste management rules		
	Management and Disposal criteria of hazardous waste		
	Analysis of hazardous waste		
	TSD criteria and management		
	Waste minimization Techniques		
	Recycling and reuse of waste		
	Impact on Environment and health		
	Bio-medical waste	20	8
	Concept and present status		
	Biomedical waste rules		
	Management and Disposal of wastes		
	CBWTF criteria and management		
	Waste minimization Techniques		
	Recycling and reprocessing of waste		
	Impact on Environment and health		
	Electronic waste (E-waste)	20	8
	Concept and present status		
	E-waste rules		
	Management and Disposal of E-waste		
	E-waste Dismantling and Re-refinery		
	Waste minimization Techniques		
	Recycling and reprocessing of waste		
	Impact on Environment and health		



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WEEK	TOPIC	THEORY	FIELD WORK
	Battery waste	20	8
	Concept and present status		
	Battery rules		
	Management and Disposal system		
	Waste minimization Techniques		
	Recycling of batteries		
	Impact on Environment and health		
	Construction and demolition waste	20	8
	Concept and present status		
	Legal Provisions		
	Management and Disposal of waste		
	Waste minimization Techniques		
	Recycling and reuse of waste		
	Impact on Environment and health		
	Soft skills	20	10
	Field work		208
	Total theory	160	
	Total practical	282	

