



Gujarat Council of Vocational Training Gandhinagar



1. Name of Course:

Irrigation Methods

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: Non-Engineering

3. No. of students per batch: 16

4. Duration in Hours. : 72 hours

5. Duration in Month: 1 month (18 hours per week)

5. 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	Theory(to be conducted through viva)	35	100	40	-
Subject-2	Practical	37	100	60	-
	Extra Activities		-	-	-

7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	Open for all (Illiterate/ Literate)
Desirable:	8th pass

3. Minimum qualification for Trainer:

Minimum qualification (Essential):	Bachelor's degree in agriculture/ITI degree with 2 yrs exp./ person having relevant expertise in this area.
Desirable:	Agriculture expertise





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3. Syllabus Committee Member:

Sr. No.	Name	Organization	Designation	Technical Qualification	Experience in Years	Signature
1.	Dr.K.J.Srivastava	Ex.Joint Director, NHRF,Nasik	Advisor to Pidilite on Agriculture and Horticulture	PhD	30	
2.	Dr.Y.Trivedi	Horticulture and Agriculture, Pidilite Industries Limited	Scientist	PhD	5	
3.	Dr.P.K.Shukla	Pidilite Industries Limited	Head-Special Projects	PhD	20	
4	Sayeree Das	Pidilite Industries Limited	Program Executive	PGDRM, IRMA	1.4	
5	Mr.Ajit Jadav	Pidilite Industries Limited	CSR	BSc.	3	
6	Mr.Mahendra Singh Gohil	Pidilite Industries Limited	CSR	BSc.	7.5	





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

After the training, the trainee will be skilled under the 'Level I' classification according to the NCO-2004 available on www.det.nic.in

After successful completion of training, the trainee will have following skills,

1. Improved knowledge in bed preparation and scheduling of irrigation
2. Improved knowledge in components, maintenance and design of drip irrigation.

11. Approximate cost of Tools
/ Equipments / Machinery
Starting one batch of the course:

Rupees:
Rs365000/-

Reference Year

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

5000 Sq. Meter

13. Minimum Power connection required

.....10..... K.W.

14.1 No of items in Standard list of Machinery:

5

14.1.1. Page NO from 5 to 6.

14.2 No of items in Standard list of Shop outfit:

0

14.2.1. Page NO from to .

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

0

14.1.1. Page NO from 5 to 6.



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

Approved by GCVT in Governing Body meeting on

6-5-2016

Syllabus implemented w.e.f. admission session

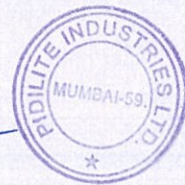
next session

Revision History

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



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Standard List of Machinery - Equipment / Shop-outfit / or Trainee Toolkit
For Trade of **Irrigation Methods**

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1	Oil Engine 10-15 HP	Machinery		1	1
2	Electric Motor 10HP	Machinery		1	1
3	Power Tiller	Machinery		1	1
4	Pipes	Machinery		1	1
5	Drip System	Machinery		1	1

List of Consumables for the Trade of Irrigation Methods

Sl. No.	Consumables
1	Diesel/Oil
2	Electricity Bill
3	Miscellaneous



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(As many sheets as required should be used to accommodate all items)

GUJARAT COUNCIL OF VOCATIONAL TRAINING GANDHINAGAR

Name of Syllabus: **Irrigation Methods**

Sector: Agriculture

Terminal Competency:

Sr. No.	Theory	Practical
1	History	Bed preparation according to water flow, land slope, and soil type
2	Methods of Irrigation-surface irrigation, drip and sprinkler irrigation.	Water holding capacity of soil
3	Components of Drip and Sprinkler Irrigation-pump or pressurized water source, water filter, fertigation system, back wash control, pressure control valves, main line, laterals etc	Fixing of Drip and CSprinkler systems
4	Advantages and Disadvantages of Surface, drip and Sprinkler irrigation systems..	Understanding of various components of Irrigation systems.
5	Scheduling of the irrigation.	Maintenance of Drip and Irrigation systems.
6	Maintenance of Drip and Irrigation systems-Removal of physical, chemical and biological cloggings	
7	Design aspects of Drip and Sprinkler Irrigation systems	

Soft Skills Training Sessions

Training on soft skills, communication skills, basic etiquettes and good industry practice for team work would be taken up by the faculty along with the trade sessions at regular intervals and frequency.

Written Examination of the same is not necessary.



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