CURRICULUM

FOR THE TRADE OF

Construction Surveyor

UNDER

APPRENTICESHIP TRAINING SCHEME

GOVERNMENT OF INDIA

MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

DIRECTORATE GENERAL OF TRAINING

1. **Category of trade** Non-Engineering 2. Name of the Trade :Construction Surveyor 3. **Duration of Apprenticeship Training** 24 Months Break up of the Apprenticeship Training (i) **Duration of Basic Training** 6 (3+3) months / 1200 Hrs (ii) **Duration of Practical Training/** On-the-job Training: 18 (9+9) Months 10thPass 4. **Entry Qualification** (A) Basic training components (i) Employability Skills – 110 Hrs (ii) Basic numeracy - 50 Hrs Trade theory (iii) - 120+120 Hrs Trade practical (iv) - 400+400 Hrs

(BPractical Training/On-the job training :

18 Months

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1. ACKNOWLEDGEMENT

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Special acknowledgement to the following departments in L&T Construction who have contributed valuable inputs in bringing out this curricula through their expert members:

- 1. Competency Development Centre
- 2. Skills training institutes Facilities & Management Team
- 3. Principals and Master Trainers
- 4. Subject Matter Experts from respective department
- VACUM (Vocational Curriculum) Development team of L&T Construction Skills
 Training Department

2. BACKGROUND

2. 1. Apprenticeship Training Scheme under Apprentice Act 1961

The Apprentices Act, 1961 was enacted with the objective of regulating the programme of training of apprentices in the industry by utilizing the facilities available therein for imparting on-the-job training. The Act makes it obligatory for employers in specified industries to engage apprentices in designated trades to impart Apprenticeship Training on the job in industry to school leavers and person having National Trade Certificate(ITI pass-outs) issued by National Council for Vocational Training (NCVT) to develop skilled manpower for the industry. There are four categories of apprentices namely; tradeapprentice, graduate, technician and technician (vocational) apprentices.

Qualifications and period of apprenticeship training of **trade apprentices** vary from trade to trade. The apprenticeship training for trade apprentices consists of basic training followed by practical training. At the end of the training, the apprentices are required to appear in a trade test conducted by NCVT and those successful in the trade tests are awarded the National Apprenticeship Certificate.

The period of apprenticeship training for graduate (engineers), technician (diploma holders and technician (vocational) apprentices is one year. Certificates are awarded on completion of training by the Department of Education, Ministry of Human Resource Development.

2. 2. Changes in Industrial Scenario

Recently we have seen huge changes in the Indian industry. The Indian Industry registered an impressive growth during the last decade and half. The number of industries in India have increased manifold in the last fifteen years especially in services and manufacturing sectors. It has been realized that India would become a prosperous and a modern state by raising skill levels, including by engaging a larger proportion of apprentices, will be critical to success; as will stronger collaboration between industry and the trainees to ensure the supply of skilled workforce and drive development through employment. Various initiatives to build up an adequate infrastructure for rapid industrialization and improve the industrial scenario in India have been taken.

2. 3. Reformation

The Apprentices Act, 1961 has been amended and brought into effect from 22nd December, 2014 to make it more responsive to industry and youth. Key amendments are as given below:

- Prescription of number of apprentices to be engaged at establishment level instead of trade-wise.
- Establishment can also engage apprentices in optional trades which are not designated, with the discretion of entry level qualification and syllabus.
- Scope has been extended also to non-engineering occupations.
- Establishments have been permitted to outsource basic training in an institute of their choice.
- The burden of compliance on industry has been reduced significantly.

3. RATIONALE

[Need for Apprenticeship asConstructionworks]

In a construction industry, the identification and selection of most important construction trades, which covers almost 80% of the construction work activities. These trades cover Bar bending, Masonry, Formwork, Plumbing, Finishing-Tiling, Lab Technician, Surveyor, Electrician, Welding, CCTV, Optical Fibre Cable (OFC) and all sectorial activities. It will covers the Construction, Installation & Surveillance and Infrastructure industries.

The greater degree of relevance of the training with latest advancements of the industry will enhance the employability opportunities.

- 1. Identify, select, handle, and use the basic hand tools and small instruments.
- 2. Identify, select, handle, and use materials and consumables.
- 3. Use personnel protective safety equipments.
- 4. Dispose waste/debris and perform good housekeeping nearby instruments.
- 5. Level run to establish TBM and closing error
- 6. Setting out construction profile, trench excavation
- 7. Levelling for control measurement, collimation error and temporary adjustment.
- 8. Measure distances and angles Using theodolite
- 9. Topographical and contour Mapping
- 10. Use all features of total station, theodolite and auto level
- 11. Detail mapping using feature codes

4. JOB ROLE

Brief description of Job role:

Construction Surveyoris one of the basic trade in Construction Industry which is common to all type of Constructions and has variance with respect to specific requirements of the Project.

Brief Job Description of Construction Surveyor: Surveyorplan and design all Civil Engineering projects such as construction of highways, bridges, tunnels, dams etc are based upon surveying measurements. Moreover, during execution, project of any magnitude is constructed along the lines and points established by surveying. Surveyors update boundary lines and prepare sites for construction so that legal disputes are prevented. Surveyors make precise measurements to determine property boundaries. They provide data relevant to the shape and contour of the Earth's surface for engineering, mapmaking, and construction projects.

5. LEARNING OUTCOMES

A. GENERIC OUTCOME

- Recognize & comply safe working practices, environment regulation and housekeeping.
- Work in a team, understand and practice soft skills, technical English to communicate with required clarity.
- Understand and explain the concept in quality tools and labour welfare legislation and apply such in day to day work to improve productivity & quality.
- Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.
- Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.
- Understand and apply basic computer working, basic operating system and uses internet services to get accustomed & take benefit of IT developments in the industry.

B. SPECIFIC OUTCOME

The Trainees will be able to

- Identify, select, handle, and use the basic hand tools and small instruments.
- Identify, select, handle, and use materials and consumables.
- Use personnel protective safety equipments.
- Dispose waste/debris and perform good housekeeping nearby instruments.
- Level run to establish TBM and closing error
- Setting out construction profile, trench excavation
- Levelling for control measurement, collimation error and temporary adjustment.
- Measure distances and angles Using theodolite
- Topographical and contour Mapping
- Use all features of total station, theodolite and auto level
- Detail mapping using feature codes

6. GENERAL INFORMATION

Name of the Trade : Construction Surveyor

2. Duration of Apprenticeship Training : 24 Months

Basic Training : 6 Months

Practical Training : 18 Months

3. Duration of Basic Training :

a. Block -Ib. Block - II3 months3 months

4. Total duration of Basic Training : 6 Months

5. Duration of Practical Training

(On -job Training) : 18 Months

6. Entry Qualification : 10th Pass

7. Selection of Apprentices : The apprentices will be selected asper

Apprenticeship Act amended time to

time.

8. Rebate for ITI passed trainees : NA

Note: Industry may impart training as per above time schedule, however this is not fixed. The industry may adjust the duration of training considering the fact that all the components under the syllabus must be covered. However the flexibility should be given keeping in view that no safety aspect is compromised and duration of industry training to be remains as 1 year.

7. COURSE STRUCTURE

Training duration details:-

Time (in months)	1-3	4-12	13-15	16-24
Controlled Condition training	Part A		Part B	
On-job training		Part A		Part B

Components of training							Δ	Duration of training in Months	tion	of t	rain	ing	i N	lont	hs							
	1 2	က	4	2	9	7	∞	6	-0		- 0	- ω	- 4 - 5	- 10	1 /	- 00	− 0	0.0	7 7	00	3.2	0.4
Controlled Condition Training Part A																						
On Job Training, Part A											_											
Controlled Condition Training Part B (@ site)																						
On Job Training, Part B																						

8. SYLLABUS

8.1 BASIC TRAINING

(Part A & B)

DURATION: 06 MONTHS

GENERAL INFORMATION

1) Name of the Trade : Construction Surveyor

2) Hours of Instruction : 800 Hrs.

3) Batch size : 20

4) Power Norms : NA

5) Space Norms : NA

6) Examination : The internal assessment will be

held on completion of each Block.

7) Instructor Qualification :

a) Degree/Diploma in Engineering or Masters from recognized university/Board with one/two year post qualification experience respectively in the relevant field.

8)Tools, Equipment's & Machinery required: - As per Annexure - I

8.1.1 Details of Syllabus of Core Skill

COURSE CONTENTS:-

Introduction to Basic Competencies

- IntroductiontoTrade anddutiesof "Surveyor"
- Occupationalhealthhazards, Personal Protective Equipments (PPE) usage
- Introduction, Handling, Storing and Maintenance of Tools, Materials, Consumables and Small Equipments
- Understanding tolerancelimits, measuring in MKS system

Controlled Condition Training (Part A and Part B)

Duration: 6 Months (3 Month in each part)

Controlled Condition Training, Part A: 3 Months

PracticalCompetencies	UnderpinningKnowledge(Theory)
Measurethelengthofroadsurroundingthe groundusing Tape/Chain	 IntroductionofChain andTapeMeasurement Procedureformeasuringthe lengthusingChain/Tape Calculationofresult Housekeeping&Safetypractices
ShiftTBMusingautolevelwith 2 changepoints ShiftTBMusingautolevelwith 4 changepoints	 IntroductionofAutolevelandtheodolite ProcedureforShiftTBMusingautolevel Calculationofresult Housekeeping&Safetypractices
Find thehorizontalandverticaldistancebetweentwosurv eypointsusingtheodolite	 Procedureforfindingthehorizontalandverticaldista ncebetweentwosurveypointsusingtheodolite Calculationofresult Housekeeping&Safetypractices
Find reducedlevelofvarioussurveypointsgivenusing autolevelusingRise andFallmethodusingAutolevel	 Procedureforfindreducedlevelofvarioussurveypoi ntsgivenusingautolevelusingriseand fallmethodusingAutolevel Calculationofresult Housekeeping&Safetypractices
Findreducedlevelofvarioussurveypointsgivenusingau tolevelUsingHeightofCollimationmethodusingAutole vel	 ProcedureforFindingreducedlevelofvarioussurvey pointsgivenusingautolevelUsingHeightofinstrum entmethod using Autolevel Calculationofresult Housekeeping&Safetypractices

Controlled Condition Training, Part B: 3 Months

Findreducedlevelofvarioussurveypointsgivenusingto talstation	ProcedureforFindingreducedlevelofvarioussurve
taistation	ypointsgiven usingtotalstation
	Calculationofresult
	Housekeeping&Safetypractices
FindthedistancebetweentwofixedpointsusingTotalsta	 ProcedureforFindingthedistancebetweentwofixed
tion	pointsusingTotalstation
	 Calculationofresult
	 Housekeeping&Safetypractices
Find theanglebetweentwolineusingTotalstation	ProcedureforFindingtheanglebetweentwolineusin
	gTotalstation
	 Calculationofresult
	 Housekeeping&Safetypractices
Find coordinatesofgivensurveypointsTotalStation	 Procedurefor
	FindingcoordinatesofgivensurveypointsusingTot
	alstation
	Calculationofresult
Find theareaof thegivenground	Procedure for Findingthe area of
usingTotalStation	thegivengroundusingTotalStation
	 Calculation fresult
	 Housekeeping&Safetypractices

8.1.2 EMPLOYABILITY SKILLS

GENERAL INFORMATION

1) Name of the subject : EMPLOYABILITY SKILLS

2) Applicability : ATS- Mandatory for fresher only

3) Hours of Instruction : 110 Hrs.

4) **Examination** : The examination will be held at the end

of two years Training by CSDCI.

5) Instructor Qualification :

i) MBA/BBA with two years experience or graduate in sociology/social welfare/Economics with two years experience and trained in Employability skill from DGET Institute.

And

Must have studied in English/Communication Skill and Basic Computer at 12th /diploma level

OR

ii) Existing Social Study Instructor duly trained in Employability Skill from DGET Institute.

8.1.3 SYLLABUS OF EMPLOYABILITY SKILLS

Part A

Basic Training

Topic	Tawia	Duration
No.	Topic	(in hours)
	English Literacy	
1	Pronunciation: Accentuation (mode of pronunciation) on simple words, Diction	
2	(use of word and speech) Functional Grammar Transformation of sentences, Voice change, Change of tense, Spellings.	
3	Reading Reading and understanding simple sentences about self, work and environment	20
4	Writing Construction of simple sentences Writing simple English	
5	Speaking / Spoken English Speaking with preparation on self, on family, on friends/ classmates, on know, picture reading gain confidence through role-playing and discussions on current happening job description, asking about someone's job habitual actions. Cardinal (fundamental) numbers ordinal numbers. Taking messages, passing messages on and filling in message forms Greeting and introductions office hospitality, Resumes or curriculum vita essential parts, letters of application reference to previous communication.	

	I.T. Literacy	
1	Basics of Computer Introduction, Computer and its applications, Hardware and peripherals, Switching on-Starting and shutting down of computer.	
2	Computer Operating System Basics of Operating System, WINDOWS, The user interface of Windows OS, Create, Copy, Move and delete Files and Folders, Use of External memory like pen drive, CD, DVD etc, Use of Common applications.	
3	Word processing and Worksheet Basic operating of Word Processing, Creating, opening and closing Documents, use of shortcuts, Creating and Editing of Text, Formatting the Text, Insertion & creation of Tables. Printing document. Basics of Excel worksheet, understanding basic commands, creating simple worksheets, understanding sample worksheets, use of simple formulas and functions, Printing of simple excel sheets	20
4	Computer Networking and INTERNET Basic of computer Networks (using real life examples), Definitions of Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet (Network of Networks), Meaning of World Wide Web (WWW), Web Browser, Web Site, Web page and Search Engines. Accessing the Internet using Web Browser, Downloading and Printing Web Pages, Opening an email account and use of email. Social media sites and its implication. Information Security and antivirus tools, Do's and Don'ts in Information Security, Awareness of IT - ACT, types of cyber crimes.	

	Communication Skill	
1	Introduction to Communication Skills	
	Communication and its importance	
	Principles of Effective communication	
	Types of communication - verbal, non verbal, written,	
	email, talking on phone.	
	Non verbal communication -characteristics, components-Para-	
	language	
	Body - language	
	Barriers to communication and dealing with barriers.	
	Handling nervousness/ discomfort.	
2	Listening Skills	
	Listening-hearing and listening, effective listening, barriers to	
	effective listening guidelines for effective listening.	
	Triple- A Listening - Attitude, Attention & Adjustment.	
	Active Listening Skills.	15
3	Motivational Training	
	Characteristics Essential to Achieving Success	
	The Power of Positive Attitude	
	Self awareness	
	Importance of Commitment	
	Ethics and Values	
	Ways to Motivate Oneself	
	Personal Goal setting and Employability Planning.	
4	Facing Interviews	
	Manners, Etiquettes, Dress code for an interview	
	Do's & Don'ts for an interview	
5	Behavioral Skills	
	Problem Solving	
	Confidence Building	
	Attitude	

Topic No.	Topic	Duration (in hours)
	Entrepreneurship skill	,
1	Concept of Entrepreneurship	
	Entrepreneurship - Entrepreneurship - Enterprises:- Conceptual issue	
	Entrepreneurship vs. Management, Entrepreneurial motivation.	
	Performance & Record, Role & Function ofentrepreneurs in	
	relation to the enterprise & relation to the economy, Source of	
	business ideas, Entrepreneurial opportunities, The process of	
	setting up a business.	
2	Project Preparation & Marketing analysis	
	Qualities of a good Entrepreneur, SWOT and Risk Analysis.	
	Concept & application of Product Life Cycle (PLC), Sales &	
	distribution Management. Different Between Small Scale & Large	
	Scale Business, Market Survey, Method of marketing, Publicity	15
	and advertisement, Marketing Mix.	
3	Institutions Support	
	Preparation of Project. Role of Various Schemes and Institutes for	
	self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for	
	financing/ non financing support agencies to familiarizes with the	
	Policies /Programmes & procedure & the available scheme.	
4	Investment Procurement	
	Project formation, Feasibility, Legal formalities i.e., Shop Act,	
	Estimation & Costing, Investment procedure - Loan procurement -	
	Banking Processes.	
	Productivity	
1	Productivity Definition, Necessity, Meaning of GDP.	
	: , :::::,,, ::::::::,,, :::::::::::::	

2	Affecting Factors	
	Skills, Working Aids, Automation, Environment, Motivation	
	How improves or slows down.	
3	Comparison with developed countries	40
	Comparative productivity in developed countries (viz. Germany,	10
	Japan and Australia) in selected industries e.g. Manufacturing,	
	Steel, Mining, Construction etc. Living standards of those	
	countries, wages.	
	Personal Finance Management	
4	Banking processes, Handling ATM, KYC registration, safe cash	
	handling, Personal risk and Insurance.	
	Occupational Safety, Health & Environment Education	
	Safety & Health	
1	Introduction to Occupational Safety and Health importance of	
	safety and health at workplace.	
	Occupational Hazards	
	Basic Hazards, Chemical Hazards, Vibroacoustic Hazards,	
2	Mechanical Hazards, Electrical Hazards, Thermal Hazards.	
	Occupational health, Occupational hygienic, Occupational	15
	Diseases/ Disorders & its prevention.	
	Accident & safety	
3	Basic principles for protective equipment.	
	Accident Prevention techniques - control of accidents and safety measures.	
	First Aid	
4	Care of injured & Sick at the workplaces, First-Aid &	
	Transportation of sick person	
5	Basic Provisions	
	Idea of basic provision legislation of India.	
	of safety, health, welfare under legislation of India.	
6	Ecosystem	
	Introduction to Environment. Relationship between Society and	
	Environment, Ecosystem and Factors causing imbalance.	

7	Pollution Pollution and pollutants including liquid, gaseous, solid and hazardous waste.	
8	Energy Conservation	
	Conservation of Energy, re-use and recycle.	
9	Global warming	
	Global warming, climate change and Ozone layer depletion.	
10	Ground Water	
	Hydrological cycle, ground and surface water, Conservation and	
	Harvesting of water	
11	Environment	
	Right attitude towards environment, Maintenance of in -house environment	
	Labour Welfare Legislation	
1	Welfare Acts	
	Benefits guaranteed under various acts- Factories Act,	
	Apprenticeship Act, Employees State Insurance Act (ESI),	0.5
	Payment Wages Act, Employees Provident Fund Act, The	05
	Workmen's compensation Act.	
	Quality Tools	
1	Quality Consciousness :	
	Meaning of quality, Quality Characteristic	
2	Quality Circles :	
	Definition, Advantage of small group activity, objectives of quality	
	Circle, Roles and function of Quality Circles in Organization,	
	Operation of Quality circle. Approaches to starting Quality Circles,	10
	Steps for continuation Quality Circles.	
3	Quality Management System :	
	Idea of ISO 9000 and BIS systems and its importance in	
	maintaining qualities.	
4	House Keeping :	
	Purpose of Housekeeping, Practice of good Housekeeping.	
5	Quality Tools	
	Basic quality tools with a few examples	

8.2BASIC NUMERACY

GENERAL INFORMATION

6) Name of the subject : BASIC NUMERACY

7) Applicability : ATS- Mandatory for fresher only

8) Hours of Instruction : 50 Hrs.

9) **Examination**: The examination will be held at the end

of two years Training by CSDCI.

10) Instructor Qualification :

iii) MBA/BBA with two years experience or graduate in Science and Mathematics with two years experience and trained in Basic Numeracy from DGET Institute.

And

Must have studied in Mathematics at 12th /diploma level

8.2.1 SYLLABUS OF BASIC NUMERACY

Basic Training

Topic No.	Topic	Duration (in hours)
	English Literacy	
1	Number System/Fractions	
2	Square Root/Cube Root	
3	Average/Percentage	50 Hrs
4	Area Calculation- Triangles, Quadrilaterals	
5	Concept of geometry- Square, Rectangle, Circle, Triangle	
6	Basic Trigonometry	

8.3 PRACTICAL TRAINING (ON-JOB TRAINING)

(Part A & B)

DURATION: 18 MONTHS

Broad Skill Components to be covered during On-Job Training

On Job Training, Part A: 9 Months

- 1) Measure the length of road surrounding the ground using Tape/ Chain
- 2) Shift TBM using auto level with 2 change points
- 3) Shift TBM using auto level with 4 change points
- 4) Find the horizontal and vertical distance between two survey points using theodolite
- Find reduced level of various survey points given using auto level using Rise and Fall method using Auto level
- 6) Find reduced level of various survey points given using auto level Using Height of Collimation method using Auto level

On Job Training, Part B: 9 Months

- 1) Find reduced level of various survey points given using total station
- 2) Find the distance between two fixed points using Total station
- 3) Find the angle between two line using Total station
- 4) Find coordinates of given survey points Total Station
- 5) Find the area of the given ground using Total Station

4.Instructors Qualification:

i) Degree/Diploma in **Civil** Engg. from recognized university/Board With one/two year post qualification experience in the relevant field.

OR

- ii) ITI in relevant trade with three year experience / 8 years' experience in the relevant field with 10th Qualification.
- **5. Infrastructure for On-Job Training**: Ongoing Project sites

9. ASSESSMENT STANDARD

Assessment Guideline

Successful achievement of the partical assesment is the professional judgement of the instructor/assessor. Failure to demonstrate the appropriate practical skills and practices to the satisfatction of the Assessor will result in a failure of the course. The following area will be consoidered.

Selection of materials, Understanding of drawing, Quality of work (Functional aspects, Dimensional features, Surface finish), Personal safety, time taken to complete the job. If the delegate fail a couse the Training Provider must make a recommendation outline a time period required for the delegate to gain sufficient industry experinece prior to repete the course.

10. FURTHER LEARNING PATHWAYS

 On successful completion of the course trainees can opt for any charge hand/ foreman / supervisory course under CSDCI.

Employment opportunities:

On successful completion of this course, the candidates may be gainfully employed in the following industries:

1. Construction Sector – Structural activities.

ANNEXURE - I

TOOLS & EQUIPMENT FOR BASIC TRAINING

INFRASTRUCTURE FOR PROFESSIONAL SKILL & PROFESSIONALKNOWLEDGE

TRADE: Storage and Inventory Executive (warehouse/Manufacturing plant)

LIST OF TOOLS & EQUIPMENTS FOR 20 APPRENTICES

A: TRAINEES TOOL KIT:-

SI.No	Name of equipment and Tools as per prescribed Norms	Quantity Required
Equipment		
1	Prismatic compass set	1
2	Plane tableset with aldidate u frame	1
4	Leveling staff	8
5	Theodolite	4
6	Auto level	8
7	Total station	3
Tools		
1	Drawing Board A1	5
2	T Square	8
3	Triangular Scale	1
4	Cutter	4
5	Plumb Bob.	5
6	Square (Steel)	1
7	claw Hammer	2
8	Ball pen hammer	2

9	Screw Driver	1
10	Pocket Steel Tape	20
11	Measuring Steel Tape 30 m	2
12	Measuring Steel Tape 50 m	3
13	Chain engg.	2
14	Cross staff open	4
15	Ranging rods	20
16	wooden peg	20
17	Drawing drafter	2
18	Scientific calculator	1
19	Citizen calculator	1
20	Scissor	2
21	Geometrical box	4

Note: In case of basic training setup by the industry the tools, equipment and machinery available in the industry may also be used for imparting basic training.

INFRASTRUCTURE FOR ON-JOB TRAINING

Actual training will be conducted at ongoing construction project sites

ANNEXURE-II

GUIDELINES FOR INSTRUCTORS AND PAPER SETTERS

- 1. Due care to be taken for proper & inclusive delivery among the batch. Some of the following some method of delivery may be adopted:
 - A) LECTURE
 - B) LESSON
 - C) DEMONSTRATION
 - D) PRACTICE
 - E) GROUP DISCUSSION
 - F) DISCUSSION WITH PEER GROUP
 - G) PROJECT WORK
 - H) INDUSTRIAL VISIT
- 2. Maximum utilization of latest form of training viz., audio visual aids, integration of IT, etc. may be adopted.
- 3. The total hours to be devoted against each topic may be decided with due Diligence to safety & with prioritizing transfer of required skills.