

GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

PHYSIOTHERAPY TECHNICIAN

(Duration: One Year)
Revised in July 2022

CRAFTSMEN TRAINING SCHEME (CTS)
NSQF LEVEL- 3



SECTOR -HEALTHCARE



PHYSIOTHERAPY TECHNICIAN

(Non-Engineering Trade)

(Revised in July 2022)

Version: 2.0

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 3

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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1. COURSE INFORMATION

During the one-year duration of "Physiotherapy Technician" trade, a candidate is trained on Professional Skill, Professional Knowledge and Employability Skill related to job role. In addition to this, a candidate is entrusted to undertake project work, extracurricular activities and on-the-job training to build up confidence. The broad components covered under Professional Skill subject are as below:-

The trainee learns to operate suitable tools and equipment and evaluate the basic outline of Physiotherapy, develops a vocabulary of appropriate terminology; trainee will be able to analyze and assemble the components of skeleton system, study of joints by using X-Ray films and also be able to differentiate various muscles. Trainee will be able to recognize basic cell structure and its organelles and also able to identify the major neural tissues. Trainee will be able to relate the anatomical position of circulatory system on mannequin. Trainee will able to categorize foods according to nutrients and assemble organs of digestive system, illustrate respiratory system and also able to arrange organs on dummy of excretory and reproductive system. They will perform Physiotherapy treatment, design treatment plan for stiff parts of body and also illustrate the effects of IRR. They will plan and execute remedial effects of cryotherapy, abstract benefits of SWD, lay out therapeutic uses of UTS and also plan a regimen to stimulate muscle. Trainee will be able to assess and create a message therapy.

The trainee will be able to carry out Physiotherapy assessment and treatment, develop exercise regimen, establish a treatment plan and also able to examine the strength of muscles. Trainee will be able to design remedy for back pain and also able to perform gait training. They will prepare assessment chart and rehabilitation protocol.



2.1 GENERAL

The Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers a range of vocational training courses catering to the need of different sectors of economy/ Labour market. The vocational training programmes are delivered under the aegis of Directorate General of Training (DGT). Craftsman Training Scheme (CTS) with variantsand Apprenticeship Training Scheme (ATS) are two pioneer schemes of DGT for strengthening vocational training.

'Physiotherapy Technician' tradeunder CTS is one of the popular courses delivered nationwide through the network of ITIs. The course is of one year duration. It mainly consists of Domain area and Core area. The Domain area (Trade Theory & Practical) imparts professional skills and knowledge, while Core area (Employability Skills) imparts requisite core skill, knowledge and life skills. After passing out the training programme, the trainee is awarded National Trade Certificate (NTC) by DGTwhich is recognizedworldwide.

Trainee broadly needs to demonstrate that they are able to:

- Read and interpret parameters/ documents, plan and organize work processes, identify necessary materials and tools.
- Perform task with due consideration to safety rules, accident prevention regulations and environmental protection stipulations.
- Apply professional skill, knowledge & employability skills while performing jobs.
- Check the job/ assembly as per drawing for functioning identify and rectify errors in job/ assembly.
- Document the parameters related to the task undertaken.

2.2 PROGRESSION PATHWAYS

- Can join industry as Physiotherapy Technician will progress further as Senior Physiotherapy Technician, Supervisor and can rise up to the level of Physiotherapist.
- Can become Entrepreneur in the related field.
- Can join Apprenticeship programme in different types of industries leading to National Apprenticeship Certificate (NAC).
- Can join Crafts Instructor Training Scheme (CITS) in the trade for becoming an instructor in ITIs.
- Can join Advanced Diploma (Vocational) courses under DGT as applicable.



2.3 COURSE STRUCTURE

Table below depicts the distribution of training hours across various course elements during a period of one year:

S No.	Course Element	Notional Training Hours
1	Professional Skill (Trade Practical)	840
2	Professional Knowledge (Trade Theory)	240
3	Employability Skills	120
	Total	1200

Every year 150 hours of mandatory OJT (On the Job Training) at nearby industry, wherever not available then group project is mandatory.

4	On the Job Training (OJT)/ Group Project	150
4	On the Job Training (OJT)/ Group Project	150

Trainees of one-year or two-year trade can also opt for optional courses of up to 240 hours in each year for 10th/ 12th class certificate along with ITI certification or add on short term courses.

2.4 ASSESSMENT & CERTIFICATION

The trainee will be tested for his skill, knowledge and attitude during the period of course through formative assessment and at the end of the training programme through summative assessment as notified by the DGTfrom time to time.

- a) The **Continuous Assessment** (Internal) during the period of training will be done by **Formative Assessment Method** by testing for assessment criteria listed against learning outcomes. The training institute have to maintain individual trainee portfolio as detailed in assessment guideline. The marks of internal assessment will be as per the formative assessment template provided on www.bharatskills.gov.in.
- b) The final assessment will be in the form of summative assessment. The All India Trade Test for awarding NTCwill be conducted by Controller of examinations, DGT as per the guidelines. The pattern and marking structure is being notified by DGT from time to time. **The learning outcome and assessment criteria will be basis for setting question papers for final**



assessment. The examiner during final examination will also check individual trainee's profile as detailed in assessment guideline before giving marks for practical examination.

2.4.1 PASS REGULATION

For the purposes of determining the overall result, weightage of 100% is applied for six months and one year duration courses and 50% weightage is applied to each examination for two years courses. The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%.

2.4.2 ASSESSMENT GUIDELINE

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking assessment. Due consideration should be given while assessing for teamwork, avoidance/reduction of scrap/wastage and disposal of scrap/wastage as per procedure, behavioral attitude, sensitivity to environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising some of the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work
- Computer based multiple choice question examination
- Practical Examination

Evidences and records of internal (Formative) assessments are to be preserved until forthcoming examination for audit and verification by examination body. The following marking pattern to be adopted for formative assessment:

Performance Level	Evidence		
(a) Marks in the range of 60 -75% to be allotted during assessment			

For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices

- Demonstration of good skills and accuracy in the field of work/ assignments.
- A fairly good level of neatness and consistency to accomplish job activities.
- Occasional support in completing the task/ job.

(b) Marks in the range of 75% - 90% to be allotted during assessment

For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and regard for safety procedures and practices

- Good skill levels and accuracy in the field of work/ assignments.
- A good level of neatness and consistency to accomplish job activities.
- Little support in completing the task/job.

(c) Marks in the range of above 90% to be allotted during assessment

For performance in this grade, the candidate, with minimal or no support in organization, execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of high standard craftsmanship.

- High skill levels and accuracy in the field of work/ assignments.
- A high level of neatness and consistency to accomplish job activities.
- Minimal or no support in completing the task/job.





Assistant Physiotherapist; in the Healthcare Industry is also known as Physical Therapist Assistant (PTA). Assistant Physiotherapist works alongside qualified physiotherapists, assisting in the rehabilitation of patients suffering from reduced mobility. Key tasks of an Assistant Physiotherapist include setting up equipment, preparing clients for therapy and demonstrating mobility aids and exercises. Other duties may include keeping the department tidy and basic administration work.

Reference NCO-2015:3255.0101- Assistant Physiotherapist

Reference NOS: -- NOS:HSS/N9428), (NOS:HSS/N9429), (NOS:HSS/N9430), (NOS:HSS/N9431), (NOS:HSS/N9432), (NOS:HSS/N9433), (NOS:HSS/N9434), (NOS:HSS/N9435), (NOS:HSS/N9436), (NOS:HSS/N9438), (NOS:HSS/N9439), (NOS:HSS/N9440), (NOS:HSS/N9441), (NOS:HSS/N9442), (NOS:HSS/N9443), (NOS:HSS/N9444), (NOS:HSS/N9445), (NOS:HSS/N9446), (NOS:HSS/N9447),



4. GENERAL INFORMATION

Name of the Trade	Physiotherapy Technician		
Trade Code	DGT/1038		
NCO - 2015	3255.0101		
Mapped NOS	(NOS:HSS/N9428), (NOS:HSS/N9429), (NOS:HSS/N9430), (NOS:HSS/N9431), (NOS:HSS/N9432), (NOS:HSS/N9433), (NOS:HSS/N9434), (NOS:HSS/N9435), (NOS:HSS/N9436), (NOS:HSS/N9438), (NOS:HSS/N9439), (NOS:HSS/N9440), (NOS:HSS/N9441), (NOS:HSS/N9442), (NOS:HSS/N9444), (NOS:HSS/N9444), (NOS:HSS/N9445), (NOS:HSS/N9446), (NOS:HSS/N9447),		
NSQF Level	Level-3		
Duration of Craftsmen Training	One Year (1200 Hours +150 hours OJT/Group Project)		
Entry Qualification	Passed 10 th class examination		
Minimum Age	14 years as on first day of academic session.		
Eligibility for PwD	Not considered as medical trade		
Unit Strength (No. of Students)	24(There is no separate provision of supernumerary seats)		
Space Norms	100 Sq. m		
Power Norms	3.0 KW		
Instructors Qualification for:			
(i) Physiotherapy Technician	B.Voc/Degree in physiotherapy from UGCrecognised university/board with one year experience in the relevant field. OR Diploma(Minimum 2 years) in physiotherapy from recognised university/ board of education or relevant Advanced Diploma (Vocational) from DGTwith two years' experience in the relevant		

	field. NTC/NAC passed in the Trade of "Physiotherapy Technician" With three years' experience in the relevant field.
	Essential Qualification: Relevant Regular / RPL variants of National Craft Instructor Certificate (NCIC) under DGT.
	Note:Out of two Instructors required for the unit of 2(1+1), one must have Degree/Diploma and other must have NTC/NAC qualifications. However, both of them must possess NCIC in any of its variants.
(ii) Employability Skill	MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years' experience with short term ToT Course in Employability Skills. (Must have studied English/ Communication Skills and Basic Computer at 12th / Diploma level and above) OR Existing Social Studies Instructors in ITIs withshort term ToT Course
(iii) Minimum Age for Instructor	in Employability Skills. 21 Years
List of Tools and Equipment	As per Annexure – I

5. LEARNING OUTCOME

Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1 LEARNING OUTCOME

- 1. Operate using suitable tools and equipments with basic outline of physiotherapy and develop a vocabulary of appropriate terminology following safety precautions. (NOS:HSS/N9428)
- 2. Analyze and assemble the components of skeleton system. (NOS:HSS/N9429)
- 3. Analyze the joints by using X-Ray films. (NOS:HSS/N9430)
- 4. Differentiate various muscles. (NOS:HSS/N9431)
- Recognize basic cell structure and its organelles. (NOS:HSS/N9432)
- 6. Identify the major neural tissues. (NOS:HSS/N9433)
- 7. Relate the anatomical position of circulatory system on mannequin. (NOS:HSS/N9434)
- 8. Categorize foods according to nutrients and assemble organs of digestive system. (NOS:HSS/N9435)
- 9. Illustrate respiratory system. (NOS:HSS/N9436)
- 10. Arrange organs on dummy of excretory and reproductive system. (NOS:HSS/N9437)
- 11. Design a treatment plan for stiff parts of body. (NOS:HSS/N9438)
- 12. Illustrate the effects of IRR. (NOS:HSS/N9439)
- 13. Execute remedial effects of cryotherapy. (NOS:HSS/N9440)
- 14. Enumerate the benefits of SWD. (NOS:HSS/N9441)
- 15. Test and lay out therapeutic uses of UST. (NOS:HSS/N9442)
- 16. Plan a regimen to stimulate muscles. (NOS:HSS/N9443)
- 17. Asses and create a massage therapy. (NOS:HSS/N9444)
- 18. Carry out physiotherapy assessment and develop exercise regimen. (NOS:HSS/N9445)
- 19. Develop remedial measures for back pain and abnormal gaits. (NOS:HSS/N9446)



20. Prepare assessment chart and rehabilitation protocol. (NOS:HSS/N9447)

6. ASSESSMENT CRITERIA

	LEARNING OUTCOMES	ASSESSMENT CRITERIA
1.	Operate using suitable tools and equipmentswith basic	Identify tools, modalities and equipments to be used in physiotherapy.
	outline of physiotherapy	Perform anatomical and fundamental positions.
	and develop a vocabulary of	Explain the divisions and sub-divisions of human body.
	appropriate	Clarify terms used in relation to trunk, neck, face, upper and
	terminologyfollowing safety	lower limb.
	precautions.	
	(NOS:HSS/N9428)	
2.	Analyze and assemble the	Identify the bones of the body.
	components of skeleton	Assemble bones of upper limb.
	system. (NOS:HSS/N9429)	Assemble bones of lower limb.
		Differentiate bones of left and right side.
		Recognize all parts of bones.
3.	Analyze the joints by using	Identify the bones and joints on X-Ray films.
	X-Ray films.	Arrange bones to form joints of upper and lower limb.
	(NOS:HSS/N9430)	Recognize the views of X-Ray films.
		Distinguish normal and abnormal X-Rays.
		Identify the bones and joints on X-Ray films.
		Arrange bones to form joints of upper and lower limb.

trunk, abdomen, neck and face. Categorize types of muscles according to their structure. Perform movements of all joints and relate them with musc actions. 5. Recognize basic cell structure and its organelles. (NOS:HSS/N9432) Identify human cell and its organelles. (NOS:HSS/N9432) Able to give presentation on different types of tissues. List the name of skin layers. Memorize all parts of brain and spinal cord. Perform superficial and deep reflexes. Write reports for cranial and spinal nerves. Demonstrate the body parts supplied by peripheral nerves. Perform assessment of pain by using pin prick etc. 7. Relate the anatomical List the names of chambers of heart.
Perform movements of all joints and relate them with musc actions. 5. Recognize basic cell structure and its organelles. (NOS:HSS/N9432) List the name of skin layers. 6. Identify the major neural tissues. (NOS:HSS/N9433) Memorize all parts of brain and spinal cord. Perform superficial and deep reflexes. Write reports for cranial and spinal nerves. Demonstrate the body parts supplied by peripheral nerves. Perform assessment of pain by using pin prick etc.
5. Recognize basic cell structure and its organelles. (NOS:HSS/N9432) 6. Identify the major neural tissues. (NOS:HSS/N9433) Memorize all parts of brain and spinal cord. Perform superficial and deep reflexes. Write reports for cranial and spinal nerves. Demonstrate the body parts supplied by peripheral nerves. Perform assessment of pain by using pin prick etc.
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7. Relate the anatomical List the names of chambers of heart.
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position of circulatory Demonstrate the physiology of heart with its valves by us
system on mannequin. charts.
(NOS:HSS/N9434) Check radial and femoral pulse.
Measure blood pressure by using sphygmomanometer.
'
8. Categorize foods according Differentiate food and nutrition.
to nutrients and assemble Find the images of patients suffering from deficiency
organs of digestive system. nutrients.
(NOS:HSS/N9435) Exemplify food items according to nutrients.
Recognize and arrange organs of digestive system on dummy
9. Illustrate respiratory List the name of organs of respiratory system.
system. (NOS:HSS/N9436) Memorize ribs movements.
Assesses respiratory rate, inspiration and expiration of chest.
10. Arrange organs on dummy Read about the organs of excretory system and hun
for excretory system and reproductive system.
reproductive system. Assemble organs on dummy.
(NOS:HSS/N9437)

11. Design a treatment plan for	Set up hot packs in a hydrocollator tank.	
stiff parts of body.	Prepare and apply hot packs with proper precautions.	
(NOS:HSS/N9438)	Check patient's skin sensitivity before applying hot packs and	
	wax bath.	
	Illustrate the procedure of hot packs and wax bath.	
	Make a proper covering over wax with cloth or newspaper.	
	Demonstrate the procedure of removal of wax bath/hot pack	
	and place them back into wax bath tub/ hydrocollatortank	
	respectively.	
12. Illustrate the effects of IRR.	Knows the concept of IRR.	
(NOS:HSS/N9439)	Consider indications of IRR before treatment.	
	Demonstrate the positioning of patient during treatment.	
	Plan a proper distance of IRR placement from skin of patient	
	with precautions.	
13. Execute remedial effects of	Assess skin or tissue injury before applying ice.	
cryotherapy.	Select the relevant method of icing according to the injury and	
(NOS:HSS/N9440)	contour of human body.	
	Record the timing of the icing.	
14. Enumerate the benefits of	Check all the parts of SWD.	
SWD. (NOS:HSS/N9441)	Check the position of cable and electrodes.	
	Prepare positioning of patient.	
	Perform testing of modality.	
	Perform different methods of application of electrodes.	
	Demonstrate how to wind up the machine after the procedure.	
15. Test and lay out therapeutic	Select the frequency for superficial and deep tissues.	
uses of UST.	Demonstrate the procedure of ultrasonic modality in different	
(NOS:HSS/N9442)	frequencies with precautions.	
	Present how to apply ultrasonic gel and phonophoresis.	
	Perform different methods of testing of modality.	
16. Plan and regimen to	Illustrate the test of muscle stimulator, TENS and IFT.	
stimulate muscles.	Demonstrate the working of muscle stimulator for different	
(NOS:HSS/N9443)	muscle conditions.	
	I .	

	Check all the leads of modality before applying.	
	Prepare positioning of patient.	
	Present position of electrodes of TENS, IFT in pain conditions.	
	Check patient's skin sensitivity before applying modalities.	
	Perform a practice on different areas of body.	
	Perform different methods of application of IFT.	
17. Assesses and create a	Assemble the materials to be used in massage (e.g. sheets, oil,	
message therapy.	powder etc.)	
(NOS:HSS/N9444)	Plan a proper positioning of patient and therapist during	
	massage of trunk, face, upper and lower limb.	
	Demonstrate different techniques of message with precautions.	
18. Carry out Physiotherapy	Demonstrate exercises to increase ROM manually or by using	
assessment and develop	CPM.	
exercise regimen.	e regimen. Schedule measurement of range of motion by using	
(NOS:HSS/N9445)	goniometer, inclinometer and inch tape.	
	Perform active and active assisted movements.	
	Plan exercises according to patient strength.	
	Perform strengthening exercises for quadriceps and hamstrings	
	muscles on Quadriceps chair.	
	Exhibit equilibrium and non-equilibrium tests for coordination.	
	Demonstrate exercises with shoulder wheel, pulleys, Swiss ball,	
	hand dynamometer etc.	
	Test and measure inspiration and expiration of chest with inch	
	tape and practice postural drainage and breathing exercise.	
	Perform practice to make muscle flexible.	
	Plan and execute PNF techniques and MMT.	
19. Develop remedial	Prepare a chart of relaxation techniques with its therapeutic	
measures for back pain and	indications.	
abnormal gaits.	Recognize traction table.	
(NOS:HSS/N9446)	Demonstrate testing of traction for cervical and lumbar region.	
	Perform various methods of traction e.g manual traction,	
	static, intermittent, mechanical, positioning traction etc.	
	Presentation of calculation of body weight to be used for	
	traction.	

	Demonstrate normal and abnormal gait patterns.
	Perform gait patterns with walking aids for weight and non-
	weight bearing.
	Demonstrate assistance provided by therapist to patient during
	mobility.
20. Prepare assessment chart	Demonstrate personal history of a patient.
and rehabilitation protocol.	Apply clinical reasoning through the process of assessment,
(NOS:HSS/N9447)	problem identification and treatment planning.
	Use the observations, examinations and medical history to
	evaluate the patient's condition and needs.
	Prepare an assessment chart for orthopaedic, neurological and
	cardio pulmonary conditions.
	Make a differential diagnosis with relevant tests.
	Make a provisional diagnosis.
	Plan and prepare intervention program for various conditions.
	Understand the rule of nine of burn.
	Memorize the classification of obesity with BMI calculation.
	Plan exercises for gynaecological conditions and bring them
	into practice.
	Evaluate a patient's home or workplace activities and identify
	how it can be better suited to the patient's health needs.





SYLLABUSFOR PHYSIOTHERAPY TECHNICIAN TRADE **DURATION: ONE YEAR Professional Skills** Reference **Professional Knowledge** Duration (Trade Practical) **Learning Outcome** (Trade Theory) With Indicative Hours Professional Operate using Identify electrotherapy Introduction Skill 20 Hrs; suitable tools and modalities (02hrs.) a) Definition of equipments with 2. Cataloguing of exercise Physiotherapy, terms of Professional basic outline of tools and equipments. Physiotherapy: Knowledge physiotherapy and Electrotherapy, Exercise-(03hrs.) 06 Hrs 3. Draw human body and develop a therapy, Massagevocabulary of label its parts. (05hrs.) Therapy, Ergonomics, Rehabilitation. appropriate 4. Demonstrate planes, axis, terminologyfollowi anatomical and b) Definition of fundamental positions. Electrotherapy, safety ng safety precautions. (05hrs.) precautions in (NOS:HSS/N9428) 5. Sketch planes, anatomical Electrotherapy. c) Name of modalities which and fundamental positions. (05hrs.) are used in physiotherapy. Introduction to **Anatomy/Physiology** a) Definition and subdivisions of anatomy. b) Anatomical and fundamental position. c) Anatomical regions, section and planes. The descriptive anatomical terms. (06 hrs) Professional Analyze and Demonstrate skeleton Osteology Skill 45 Hrs; assemble the a) Skeleton system. system. (10hrs.) components of 7. List the names, side b) Structure, functions and classification of Professional skeleton system. determination and parts

Knowledge	(NOS:HSS/N9429)	of all bones of upper limb	bone and cartilage.
12 Hrs		and lower limb. (15hrs.)	c) Name of human bones.
		8. Identify side	d) Side determination and
		determination and parts	parts of bones of upper
		of bones of skull,	limb, lower limb, skull,
		vertebral column and	vertebral column and
		thorax. (20hrs.)	thorax.
		,	(12 hrs)
Professional	Analyze the joints	9. Prepare presentation of	Orthology
Skill 20 Hrs;	by using X-Ray	joints formation by using	a) Definition and
· · · · · · · · · · · · · · · · · · ·	films.	bones. (10hrs.)	classification of joints.
Professional	(NOS:HSS/N9430)	10. Identify the major joints of	b) The terms related to the
Knowledge	(1103.1133/113430/	human body. (10hrs.)	movements of joints.
06 Hrs		11. Perform X-Ray practical by	c) Description of joints of
001113		using X-Ray films-	upper and lower
		Recognize bones.	extremities with their
		Identify of joints.	ligaments.
		Demonstration of some	
			(06 hrs)
		normal and abnormal X-ray	
	7.00	plates. (05 hrs.)	
Professional	Differentiate	12. Show muscles structure	Myology
Skill 45 Hrs;	various muscles.	with proper labelling.	a) Macroscopic and
	(NOS:HSS/N9431)	(08hrs.)	microscopic structure of
Professional		13. Demonstratemajor muscles	muscle.
Knowledge		of upper limb. (08hrs.)	b) Classification of muscles.
12 Hrs		14. Demonstratemajor muscles	c) Parts of muscle.
		of lower limb. (08hrs.)	d) Neuromuscular junction.
		15. Identify major muscles of	e) Sliding contraction theory.
		abdomen trunk, thorax,	f) Description of all major
		neck and face with	muscles with their origin,
		diagram. (21hrs.)	insertion, nerve supply
			and action.
			(12 hrs)
Professional	Recognize basic	16. Sketch labelled picture of	a) Cell - definition, structure
Skill 20 Hrs;	cell structure and	cell. (04hrs.)	and function, cellular
	its organelles.	17. Prepare Microscopic	organelles.
Professional	(NOS:HSS/N9432)	diagram of different tissues	b) Tissue - Structure and
Knowledge	,	e.g. Connective tissues,	function.
		·	

06 Hrs		muscular tissues, nervous	Skin and temperature
		tissues etc. (7hrs.)	<u>regulation</u>
		18. Prepare postures of skin.	a) Structure of skin.
		(06 hrs.)	b) Function of skin.
		19. Identify cell structure. (03	c) Temperature regulation
		hrs.)	system.
			(06 hrs)
Professional	Identify the major	20. Idea of reflexes and their	Neurology
Skill 45 Hrs;	neural tissues.	examination. (08hrs.)	a) Parts of nervous system.
	(NOS:HSS/N9433)	21. Demonstrate and A.V.	b) Structure and function of
Professional		display. (07hrs.)	Nervous, types of
Knowledge		22. Prepare Display charts of	neurological cells.
12 Hrs		Nervous system (07hrs.)	c) Structure and function of
		23. Represent neuron, brain,	Brain and spinal cord.
		spinal cord, reflex arc, and	d) Reflex Arc, blood-brain
		plexus. (10hrs.)	barrier.
		24. Perform Pain assessment	e) Structure of a nerve,
		(13hrs.)	Cranial nerves (names
			and functions) and spinal
			nerves (Introduction).
			f) Nerve plexus of the body
			with their distributions
			(cervical plexus, brachial
			plexus, lumbosacral
			plexus).
			g) About the nerve fibres,
			motor and sensory.
			h) Blood circulation of brain
			and spinal cord.(12 hrs)
Professional	Relate the	25. Prepare of charts of heart	Circulatory system
Skill 20 Hrs;	anatomical	structure and circulation.	a) Structure and function of
	position of	(04 hrs.)	heart.
Professional	circulatory system	26. Identify heart location and	b) Nodes of heart, heart
Knowledge	on mannequin.	position by using	rates and heart sound.
06 Hrs	(NOS:HSS/N9434)	mannequin.(04hrs.)	c) Physiology of heart
		27. Identify A.V. display of	circulation.
		blood circulation.(04hrs.)	d) Blood pressure and the
		28. Prepare for Pulse and	influencing factors.

		blood pressure examination.(08hrs.)	e) Composition and function of blood. f) Circulatory system of body.(06 hrs)
Professional Skill 20 Hrs; Professional Knowledge 06 Hrs	Categorize foods according to nutrients and assemble organs of digestive system. (NOS:HSS/N9435)	 29. Prepare balance diet chart for different age graphs. (04hrs.) 30. Display the organs of digestive system on mannequin. (04hrs.) 31. Demonstrate A.V. display. (04hrs.) 32. Recognise Figuration of 	Food and nutrition a) Definition of food and nutrition. b) Carbohydrate, protein, fat, minerals, vitamins, water with example and brief description. c) Balanced diet. Digestive system
		main and accessory organs of digestive system. (08hrs.)	a) Structure and functions of digestive organs.b) Absorption and metabolism (in brief)(06 hrs)
Professional Skill 20 Hrs;	Illustrate respiratory system.	33. Demonstrate the organs of respiratory system on mannequin. (04hrs.)	Respiratory systema) Structure and function.b) Process of respiration.
Professional Knowledge 06 Hrs	(NOS:HSS/N9436)	34. Prepare Display respiratory mechanism by using videos. (04hrs.)	c) Cardio-respiratory relation. d) Artificial respiration.
		35. Measure chest inspiration and expiration with inch tape. (04hrs.)	e) Neurological control. f) Volumes and capacities values of respiration.
		36. Check Respiratory rate	Endocrinology
		examination.(04 hrs.) 37. Check Portrait charts of organs of respiratory system. (04hrs.)	a) Definition, character and function of Hormones.b) About the hormone secreting glands (in brief). (06 hrs)
Professional	Arrange organs on	38. Identify parts of	Excretory system
Skill 20 Hrs;	dummy of	excretory and	a) Structure and function of
	excretory and	reproductive system	kidney.
Professional	reproductive	on mannequin.	b) Organs of excretory
Knowledge	system.	(08hrs.)	system.

06 Hrs	(NOS:HSS/N9437)	39. Perform the	c) Structure of nephron.
		Presentation and A.V.	d) Formation of Urine
		videos of excretory	e) Micturition
		system. (04hrs.)	Gynaecology and obstetrics
		40. Identify Micturition	a) Pelvic floor muscles(
		reflex by showing	names)
		charts. (08hrs.)	b) Introduction of human
			reproductive system (in
			brief).
			c) Physiology of
			pregnancy.(06 hrs)
Professional	Design a	41. Prepare hot packs. (02hrs.)	<u>Thermotherapy</u>
Skill 20 Hrs;	treatment plan for	42. Preparation of patient.	Superficial heating agents
	stiff parts of body.	(02hrs.)	a) Hot packs: Physiological
Professional	(NOS:HSS/N9438)	43. Apply hot packs at different	effects, indications and
Knowledge		regions of body. (02hrs.)	contraindications. Types
06 Hrs		44. Plan precautions while	of hot packs
		giving treatment to patient.	(hydrocollators, hot
		(02hrs.)	water bag, electrical
		45. Assessment of the affected	heating pads) with their
		part before applying wax	techniques of application
		bath. (04hrs.)	b) Wax bath:
		46. Perform Techniques of wax	Description of a wax bath
		bath for instance with	unit, composition and
		brush, bowl etc. (04hrs.)	method of preparation of
		47. Apply wax bath with	wax bath, physiological
		precautions and proper	effects, techniques of
		layering and thickness,	application, indications
		removal of wax. (04hrs.)	and contra indications.
			(06 hrs)
Professional	Illustrate the	48. Apply IRR with	a) Infra-Red Radiation:
Skill 20 Hrs;	effects of IRR.	precautions. (10hrs.)	About the infra-red rays,
	(NOS:HSS/N9439)	49. Demonstrate different	sources of infra-red rays,
Professional		positions of patient during	technical data,
Knowledge		treatment. (05hrs.)	physiological effects,
06 Hrs		50. Placement of IRR at proper	techniques of
		distance from skin.	application, termination
		(05hrs.)	of IRR, Indications and

			contra indications. (06 hrs)
Professional	Execute remedial	51. Practice on preparation	Cryotherapy
Skill 20 Hrs;	effects of	and application of ice	a) Physiological effects.
	cryotherapy.	pack, cold pack, ice towels,	b) Methods of application
Professional	(NOS:HSS/N9440)	ice bath, ice cube massage	(Ice pack, cold pack, ice
Knowledge		according to the contour	towels, ice bath, ice cube
06 Hrs		of the body. (08hrs.)	massage, vapo coolant
		52. Practice of preparation of	sprays)
		patient. (05hrs.)	c) Cryokinetics.
		53. Plan precautions while	d) Indicationsand
		giving treatment. (07hrs.)	contraindications.
			(06 hrs)
Professional	Enumerate the	54. Explain all parts of SWD.	Deep heating agents
Skill 20 Hrs;	benefits of SWD.	(03hrs.)	A) <u>S.W.D.</u> :meanings of Short-
	(NOS:HSS/N9441)	55. Testing of SWD. (03hrs.)	wave & Diathermy, Effects of
Professional		56. Positioning of patient and	S.W.D. Technical data,
Knowledge		placement of electrodes.	Descriptions of a S.W.D
06 Hrs		(04hrs.)	Instrument, Method of
		57. Draw Flow chart of SWD	application, Positioning of
		circuit. (04hrs.)	Electrode pads During,
		58. SWD cable methods.	Treatment, Dose & Duration
		(04hrs.)	of treatment, Indications &
		59. Precautions. (02 hrs.)	Contraindications.
			(06 hrs)
Professional	Test and lay out	60. Methods of testing.	B) M.W.D- Introduction.
Skill 20 Hrs;	therapeutic uses	(04hrs.)	C)U.S.T- About the Ultra
_	of UST.	61. Methods of application.	sound,
Professional	(NOS:HSS/N9442)	(04hrs.)	Effects of U.S.T in Human
Knowledge		62. Handling and operating of	body, Technical data,
06 Hrs		UST modality with	Descriptions of an U.S.T.
		precautions. (08hrs.)	Instrument, Description
		63. Precaution of patient.	about different types of
		(04hrs.)	Coupling medium, Method of
			application of U.S.T, Dose &
			Duration of treatment,
			Indications &
			Contraindications. (06 hrs)

Professional	Plan a regimen to	64.	Practice on muscle	Sti	mulators-
Skill 65 Hrs;	stimulate muscles.		stimulator for major	a)	Faradic - About the
	(NOS:HSS/N9443)		muscles of upper limb		Faradic typeof current,
Professional			and lower limb. (10hrs.)		Technical data's,
Knowledge		65.	Preparation of patient		Description of a Faradic
18 Hrs			(04hrs.)		Stimulator& Electrodes,
		66.	Demonstration of		Physiological effects,
			muscles stimulator on		Method of application,
			face. (04hrs.)		Application of continuous
		67.	Plan precautions during		& Surged
			treatment. (10hrs.)		Faradic, Dose & Duration
		68.	Practice on placement of		of
			electrodes with using		treatment, Indications &
			proper gel. (10hrs.)		Contraindications.
		69.	Create difference	b)	Galvanic- About the
			between TENS and IFT for		Galvanic
			pain producing		type of current, Technical
			conditions. (09hrs.)		data,
		70.	Demonstrate on		Descriptions of a Galvanic
			placement of TENS and		Stimulator, Physiological
			IFT pads for radiating and		effects,
			local pain respectively.		Method of application,
			(08hrs.)		application
		71.	Methods of treatment.		of continuous &
			(04hrs.)		Interrupted
		72.	Testing methods of all		Galvanic, Dose & duration
			modalities. (04hrs.)		of
					treatment, Indications &
					Contraindications.
				c)	T.E.N.S- Meaning of
					'Transcutaneous',
					Description of a T.E.N.S.,
					Physiological effects
					(along with pain gate
					Theory), Method of
					application (Trigger point
					stimulation method,
					Acupuncture point

			stimulation method etc.), Placements of T.E.N.S
			electrodes, Application of
			continuous, surged &
			burst mode. Dose &
			Duration of treatment,
			Indications &
			contraindications.
			d) I.F.T- Introduction,
			application,
			Indications &
			Contraindications.
			(18 hrs)
Professional	Asses and create a	73. Positioning of patient and	MASSAGE THERAPY &
Skill 45 Hrs;	massage therapy.	therapist. (04hrs.)	REHABILITATION
	(NOS:HSS/N9444)	74. Techniques used in	a) Definition of Massage
Professional		massage for upper and	b) Aim of Massage
Knowledge		lower limb. (08hrs.)	c) Physiological effects of
12 Hrs		75. Illustrate a practical of	Massage
		massage on face. (05hrs.)	d) Therapeutic uses of
		76. Elaborate methods of	Massage.
		trunk massage. (07hrs.)	e) Contraindications of
		77. Precautions while giving	Massage
		massage. (06hrs.)	f) Materials used in
		78. Rules and direction of	Massage (oil, powder,
		massage. (03 hrs.)	ice etc.)
		79. Direction of using	g) Rules & direction of
		materials (oil, powder	Massage
		etc.) during massage. (03	h) Types of Massage
		hrs.)	(12 hrs)
		80. Therapeutic application	
- 6		of massage. (09hrs.)	
Professional	Carry out	81. Show positioning of	EXERCISE THERAPY AND
Skill 155 Hrs;	physiotherapy	patient and therapist.	YOGA
Duefers	assessment and	(04hrs.)	1. Fundamental of
Professional	develop exercise	82. Perform Practical of	exercise:
Knowledge	regimen.	different exercises.	a. Definition of
42 Hrs	(NOS:HSS/N9445)	(04hrs.)	therapeutic exercise.

83.	Rules and directions of
	exercises. (04hrs.)

- 84. Demonstrate exercise to increase ROM by using continuous passive movement equipments. (04hrs.)
- 85. Presentation of passive movements (manually). (05hrs.)
- 86. Assessment of range of motion of major joints by using goniometer scales. (05hrs.)
- 87. Perform measurement of spine ROM by using inch tape. (04hrs.)
- 88. Exhibit active and activeassisted movements.(02hrs.)
- 89. Illustrate strengthening exercises by using weight-cuffs for upper and lower limb joints.(02hrs.)
- Perform strengthening exercises by utilizing thera bands/thera tubes. (05hrs.)
- 91. Demonstrate resisted exercises (manually).(04hrs.)
- 92. Representation of quadriceps and hamstring resisted exercises on quadriceps chair and multipurpose chair.(06hrs.)
- 93. Practical use of different

- b. Benefits of exercise.
- c. Classification of exercise- active, passive, resistive, isometric, functional, stretching, isokinetic, closed-chain, openchain etc.

2. Applied exercise therapy

- a. Passive movements.
- b. Goniometry.
- c. Exercise with instrument.
- d. Active movements, active-assisted movements.
- e. Resistive exercise.
- f. Co-ordination and balance.
- g. Stretching exercise.
- h. Techniques for chest physiotherapy.
- i. Manual muscle testing.
- j. Techniques of PNF (brief).
- k. Indications and contraindications of passive movements.
- Indications and contraindications of breathing exercise.
- m. Grades of MMT.
- n. Precautions while performing these exercises on patient.

(42 hrs)

exercise equipments (e.g.
Shoulder wheel, shoulder
pulley, Swiss ball etc.)
(07hrs.)
94. Assessment of
coordination and
balance.(04hrs.)
95. Describe equilibrium and
non-equilibrium tests.
(05hrs.)
96. Schedule exercise
programs for stretching of
major muscles
(Manually).(08hrs.)
97. Elaborate methods of
stretching(Static,
mechanical etc.) (05hrs.)
98. Explain positioning of
patient during postural
drainage. (05hrs.)
99. Collaborate massage
techniques with postural
drainage. (05hrs.)
100.Prepare a chart of
measurements of chest
inspiration and expiration
by using hands and inch
tape at different chest
levels. (08hrs.)
101.Perform resistive exercises
for thorax muscles.
(08hrs.)
102.Practical based on
breathing exercises.
(08hrs.)
103. Illustrate a practical on
PNF techniques for upper
and lower limbs. (brief)

		(00km)	
		(09hrs.)	
		104.Presentation of PNF	
		techniques for trunk, face	
		and neck. (brief) (08hrs.)	
		105.Explanation of D ₁ and D ₂	
		patterns of PNF (brief)	
		(05hrs.)	
		106. Determination of grades	
		of MMT for upper and	
		lower limb. (08hrs.)	
		107.Practical based on grading	
		of MMT for trunk and	
		abdominals. (08hrs.)	
		108.Identify MMT exercises for	
		face. (05hrs.)	
Professional	Develop remedial	109.Proper demo of relaxation	Exercise Physiology
Skill 130 Hrs;	measures for back	techniques by using	1. Thermoregulation and
	pain and abnormal	pillows. (08hrs.)	exercise organs:
Professional	gaits.	110.Execute testing of traction.	a. Conduction,
Knowledge	(NOS:HSS/N9446)	(05hrs.)	convection &
36 Hrs		111.Demonstrate positioning	evaporation.
		of patient while giving	b. Homeostasis
		traction.(08hrs.)	c. Physiological
		112.Teach how to calculate	thermoregulatio
		patient's weight to be	n
		used in treatment.(06hrs.)	2. Respiration:
		113.Develop different	a. Muscles for
		methods of application of	inspiration and
		traction.(08hrs.)	expiration.
		114.Impart skills of manual	b. Static and
		cervical and lumbar	Dynamic Lung
		traction.(08hrs.)	volume.
		115.Instruct normal gait	c. Gaseous
		patterns. (08hrs.)	exchange.
		116.Presentation of gate	3. <u>Cardiovascular</u>
		phases on floor. (10hrs.)	adaptations:
		117.Perform abnormal gaits.	a. Sub maximal
		(12hrs.)	exercise.



		118.Demonstrate a practical	b. At maximal
		on walking aids (e.g.	exercise.
		Crutches, walker). (18hrs.)	4. <u>Fatigue:</u>
		119. Give a brief idea of parts	Types, symptoms,
		of wheelchair. (06hrs.)	recovery.
		120.Give guidelines for walking	5. Endurance: Definition,
		aids' usage for patients	endurance training.
		(e.g. Two step, three step	6. <u>Kinesiology &</u>
		etc.). (11hrs.)	Biomechanics: Basic
		121.Design gait pattern for	terminologies.
		weight bearing and non-	7. Relaxation exercises.
		weight bearing. (11hrs.)	8. TRACTION:
		122.Performance of gait	Introductions,
		training. (11hrs.)	contraindications,
		3 (1,	therapeutic uses and
			effects.
			9. Activities of daily living
			(in brief).
			10. Gait:Definition, phases,
			abnormal gait patterns
			(in brief).
			11. Walking aids: Types,
			indications,
			precautions.
			(36 hrs)
Professional	Prepare	123. Display videos showing	Applied Anatomy:
Skill 70 Hrs;	assessment chart	causes of clinical	Causes, Deformity, loss of
,	and rehabilitation	conditions. (03hrs.)	functions in following
Professional	protocol.	124.Perform observational	conditions:
Knowledge	(NOS:HSS/N9447)	assessment in various	a. Carpal tunnel
24 Hrs		conditions. (03hrs.)	syndrome.
		125.Perform clinical	b. Erb'sand kulmpke
		examination. (03hrs.)	palsy
		126.Demonstrate various	c. De Quervain's
		orthopaedical tests.	disease.
		(04hrs.)	d. Rotator cuff
		127. Demonstrate various	syndrome.
		neurological tests. (04hrs.)	e. Wrist drop.
		3 ::::: (:)	- r

128. Prepare a chart of			
orthopaedic, neurology			
assessment. (02hrs.)			

- 129. Make a cardiopulmonary assessment chart. (04hrs.)
- 130. Make a diagnosis after assessment. (04hrs.)
- 131. Plan a rehabilitation program for patients. (04hrs.)
- 132. Develop home exercise programs.(03hrs.)
- 133. Demonstrate precautions to be considered during and after treatment. (04hrs.)
- 134. Develop ergonomics. (04hrs.)
- 135. Evaluate the prognosis. (03hrs.)
- 136. Make postures showing diagrammatical calculation of burn. (05hrs.)
- 137. Calculate obesity according to BMI. (05hrs.)
- 138.Illustrate precautions related to treatment. (05hrs.)
- 139. Clinical presentation in hemiplegia, hemiparesis to differentiate it. (05hrs.)
- 140. Plan antenatal and postnatal exercises. (05hrs.)

- f. Trendelenburg's sign.
- g. Tarsal tunnel syndrome.
- h. Genu valgum/varum.
- i. Coxa valgus/ varus.
- j. Foot drop.

ORTHO-NEURO-GENERAL Orthopaedical condition: Etiology, C/F &

physiotherapy management of the followings:

- (i) Kyphosis, Lordosis& Scoliosis
- (ii) Cervical & Lumbar Spondylosis
- (iii) Ankylosing Spondylos is
- (iv) Tennis Elbow
- (v) Golfer's Elbow
- (vi) Gout
- (vii) Osteoarthritis
- (viii) Rheumatoid
 Arthritis
- (ix) Frozen Shoulder
- (x) Fracture (brief)
- (xi) Dislocation & subluxation
- (xii) Sprain
- (xiii) Tendonitis
- (xiv) Rickets
- (xv) Osteomalacia
- (xvi) Osteomyelitis
- (xviii) Calcaneal Spar (xviii) Flatfoot.

Neurological Condition: Etiology, C/F, &

		Physiotherapeutic	
		Management of the	
		following:	
		i.	Cerebral palsy
		ii.	Hemiplegia
		iii.	Paraplegia
		iv.	Quadriplegia
		٧.	Myalgia
		vi.	Fibromysitis
		vii.	Polio Myelitis
		viii.	Parkinsonism
		ix.	Bell's palsy
		х.	C.V.A (brief)
		xi.	Upper & Lower
			Motor Neuron
			diseases
		xii.	Peripheral Nerve
			Injury
		xiii.	Spinal Cord Injury
		xiv.	Sciatica
			al Condition:
			gy, C/F, Investigations
		&	
		Physic	otherapeutic
		Management	
		of the following:	
		i.	Obesity
		ii.	Burns(24 hrs)
Project work/	Case Study		

Broad Areas:

- a) Perform practical of different exercises.
- b) Assessment of range of motion of major joints by using goniometer scales.
- c) Prepare a chart of measurements of chest inspiration and expiration by using hands and inch tape at different chest levels.
- d) Execute testing of traction.
- e) Prepare a chart of orthopaedic, neurology assessment.
- f) Calculate obesity according to BMI.



SYLLABUS FOR CORE SKILLS

1. Employability Skills (Common for all CTS trades) (120 hrs)

Learning outcomes, assessment criteria, syllabus and Tool List of Core Skills subjects which is common for a group of trades, provided separately inwww.bharatskills.gov.in/dgt.gov.in.



List of Tools & Equipment PHYSIOTHERAPY TECHNICIAN (For batch of 24 Candidates)			
1.	Diagram of – (i) Human Organs (ii) Exercises Charts		1 set
2.	Wax bath		1 no.
3.	I. R. Radiator		1 no.
4.	Short wave Diathermy unit		1 no.
5.	Electric Muscle Nerve Stimulator		1 no.
6.	Battery	6 V & 12V	2 nos.
7.	Battery Eliminator	6 V, 9 V, 12 V	2 nos.
8.	Traction table, Weight Machine		1 set
9.	Apparatus for various exercises- Shoulder Wheel, Shoulder pulley, Wall ladder, Swiss ball, Pronator-Supirator exercises		1 set assorted
10.	Durra mats		12nos.
11.	Table		1 no.
12.	Chair with Desk		24+1nos.
13.	Cupboard		2 nos.
14.	IFT (Interferential Therapy)		1 no.
15.	TENS (Trans Electronic Nerve Stimulator)		1 no.
16.	Ultrasonic m/c		1 no.
17.	Weight cuffs		1 set
18.	Hydrocollator Pack		2set
19.	Quadriceps Chair		1 no.

Note:

1. Internet facility is desired to be provided in the class room.



ABBREVIATIONS

CTS	Craftsmen Training Scheme
ATS	Apprenticeship Training Scheme
CITS	Craft Instructor Training Scheme
DGT	Directorate General of Training
MSDE	Ministry of Skill Development and Entrepreneurship
NTC	National Trade Certificate
NAC	National Apprenticeship Certificate
NCIC	National Craft Instructor Certificate
LD	Locomotor Disability
СР	Cerebral Palsy
MD	Multiple Disabilities
LV	Low Vision
НН	Hard of Hearing
ID	Intellectual Disabilities
LC	Leprosy Cured
SLD	Specific Learning Disabilities
DW	Dwarfism
MI	Mental Illness
AA	Acid Attack
PwD	Person with disabilities

