Government of Pakistan

National Vocational and Technical Training Commission

Prime Minister'sHunarmand Pakistan Program

"Skills for All"



Course Contents/ Lesson Plan Course Title: Heavy Machine Operator

Duration: 6 Months

Revised Edition

Trainer Name	
Course Title	Heavy Machine Operator
Objectives and	Employable skills and hands on practice for Heavy Machine Operator
Expectations	Course provides an opportunity to build a great career in the field of Heavy Machine Operator design, course start from basic level and then move towards the advance level. Starting from introduction of Heavy Machinery then move towards operations. This course will cover the different machines operations like Bulldozer, Motor Grader, Excavator, Wheel Loader and also th different checks of the engine.
	Main Expectations:
	In short, the course under reference should be delivered by professional instructors in such robust hands- on manner that the trainees are comfortably able to employ their skills for earning money (through wage/self-employment) at its conclusion, where's hands on practice are not valid than demonstration will be required through video contents/ project prototype.
	This course thus clearly goes beyond the domain of the traditional training practices in vogue and underscores an expectation that a market centric approach will be adopted as the main driving force while delivering it. The instructors should therefore be experienced enough to be able to identify the training needs for the possible market roles available out there. Moreover, they should also know the strengths and weaknesses of each individual trainee to prepare them for such market roles during/after the training.
	 Specially designed practical tasks to be performed by the trainees have been included in the Annexure-I to this document. The record of all tasks performed individually or in groups must be preserved by the management of the training Institute clearly labeling name, trade, session etc. so that these are ready to be physically inspected/verified through monitoring visits from time to time. The weekly distribution of tasks has also been indicated in the weekly lesson plan given in this document.
	2. In order to materialize the main expectations, a special module on Job

	Search & Entrepreneurial Skills has been included in the later part of this course (5 th & 6 th month) through which, the trainees will be made aware of the Job search techniques in the local as well as international job markets (Gulf countries). Awareness around the visa process and immigration laws of the most favoredlabor destination countries also forms a part of this module. Moreover, the trainees would also be encouraged to venture into self-employment and exposed to the main requirements in this regard. It is also expected that a sense of civic duties/roles and responsibilities will also be inculcated in the trainees to make them responsible citizens of the country.
3.	A module on Workplace Ethics has also been included to highlight the importance of good and positive behavior at work place in the line with the best practices elsewhere in the world. An outline of such qualities has been given in the Appendix to this document. Its importance should be conveyed in a format that is attractive and interesting for the trainees such as through PPT slides +short video documentaries. Needless to say that if the training provider puts his heart and soul into these otherwise non-technical components, the image of Pakistani workforce would undergo a positive transformation in the local as well as international job markets.
	der to maintain interest and motivation of the trainees throughout the se, modern techniques such as:
	 Motivational Lectures Success Stories Case Studies
possi	e techniques would be employed as an additional training tool wherever ble (these are explained in the subsequent section on Training odology).
objec be m be de	y, evaluation of the competencies acquired by the trainees will be done stively at various stages of the training and proper record of the same will aintained. Suffice to say that for such evaluations, practical tasks would esigned by the training providers to gauge the problem solving abilities of ainees.
1.	Motivational Lectures
as a inclue	proposed methodology for the training under reference employs motivation tool. Hence besides the purely technical content, a trainer is required to de elements of motivation in his/her lecture. To inspire the trainees to be the training opportunity to the full and strive towards professional

	excellence. Motivational lectures may also include general topics such as the importance of moral values and civic role & responsibilities as a Pakistani. A motivational lecture should be delivered with enough zeal to produce a deep impact on the trainees. It may comprise of the following:				
	1.	Clear Purpose to convey message to trainees effectively.			
	2.	Personal Story to quote as an example to follow.			
	3.	Trainees Fit so that the situation is actionable by trainees and not represent a just idealism.			
	4.	Ending Points to persuade the trainees on changing themselves.			
	-	otivational lecture should help drive creativity, curiosity and spark the eded for trainees to want to learn more.			
	Impact of a successful motivational strategy is amongst others commonly visible in increased class participation ratios. It increases the trainees' willingness to be engaged on the practical tasks for longer time without boredom and loss of interest because they can clearly see in their mind's eye where their hard work would take them in short (1-3 years); medium (3 -10 years) and long term (more than 10 years).				
	As this tool is expected that the training providers would make arrangements for regular well-planned motivational lectures as part of a coordinated strategy interspersed throughout the training period as suggested in the weekly lesson plans in this document.				
	5. Success Stories				
	Another effective way of motivating the trainees is by means of Success Stories. Its inclusion in the weekly lesson plan at regular intervals has been recommended till the end of the training.				
	means of or brilliant goal throu contains comprehe reader/liste	s story may be disseminated orally, through a presentation or by a video/documentary of someone that has risen to fortune, acclaim, a chievement. A success story shows how a person achieved his gh hard work, dedication, and devotion. An inspiring success story compelling and significant facts articulated clearly and easily ndible words. Moreover, it is helpful if it is assumed that the ener knows nothing of what is being revealed. Optimum impact is nen the story is revealed in the form of:-			
	1.	Directly in person (At least 2-3 cases must be arranged by the training institute)			
4 I Heavy Machine O					

	 Through an audio/ videotaped message (2-3 high quality videos must be arranged by the training institute)
รเ	is expected that the training provider would collect relevant high-quality uccess stories for inclusion in the training as suggested in the weekly lesson lan given in this document.
	Suggestive structure and sequence of a sample success story and its various hapes can be seen at annexure III.
3.	. Case Studies
w	Vhere a situation allows, case studies can also be presented to the trainees to viden their understanding of the real-life specific problem/situation and to xplore the solutions.
ex th is th ea di at	In simple terms, the case study method of teaching uses a real-life case xample/a typical case to demonstrate a phenomenon in action and explain neoretical as well as practical aspects of the knowledge related to the same. It is an effective way to help the trainees comprehend in depth both the neoretical and practical aspects of the complex phenomenon in depth with ase. Case teaching can also stimulate the trainees to participate in iscussions and thereby boost their confidence. It also makes classroom tmosphere interesting thus maintaining the trainee interest in training till the nd of the course.
m ac w	Depending on suitability to the trade, the weekly lesson plan in this document may suggest case studies to be presented to the trainees. The trainer may dopt a power point presentation or video format for such case studies whichever is deemed suitable but it's important that only those cases are elected that are relevant and of a learning value.
	he Trainees should be required and supervised to carefully analyze the ases.
in	for the purpose they must be encouraged to inquire and collect specific of formation / data, actively participate in the discussions, and intended olutions of the problem / situation.
с	Case studies can be implemented in the following ways: -
	 A good quality trade specific documentary (At least 2-3 documentaries must be arranged by the training institute)
	 Health &Safety case studies (2 cases regarding safety and industrial accidents must be arranged by the training institute)
5 Heavy Machine Ope	erator

	Field visits(At least one visit to a trade specific major industry/ site must be			
	arranged by the training institute)			
Entry level of trainees	Since intake level is FA/FSC/DAE/Mechanical, the expectations from the trainees are:			
	To have knowledge of Mechanical Field			
	Knowledge of Heavy Machinery			
	To have concept of Operations of Heavy Machinery			
Learning	By the end of this course, the trainees should be able to perform the			
	following competencies:-			
	Comply with Work Health and Safety Policies			
	 Work safely at work place Communicate work health and safety (WHS) assess at work place Minimize risks to personal safety at work place Minimize risks to public safety Obey the Workplace Policies and Procedures			
	 Obey the workplace personal appearance and hygiene Follow work ethics Demonstrate the work place behaviours Communicate workplace policy & procedures Review the implementation of workplace policy & procedures Follow Basic Communication Skills (General) Adopt effective listening to skills 			
	 Adopt effective listening to skills Develop nonverbal communication with peers Prepare for Interview to get a job Use communication platform at workplace Identify communication barriers to improve interpersonal skills 			
	Operate Computer Functions (General)			
	 Set up the computer for use Organize files in folder Shut down computer system 			
	Identify Machine & its Attachments			
	 Identify machine and its sizes. Identify components & attachments Identify capacities & capabilities of machine Identify basic tools and supplies associated with machines 			

	Maintain inventory of tools and equipment.
	Comply with Personal Health and Safety Guidelines
	Identify Personal Hazards at work place
	 Apply personal protective and safety equipment (PPE)
	 Comply with occupational safety and health (OSH)
	 Dispose of hazardous waste/materials from the designated area
	Communicate the Workplace Policy and Procedure
	Identify workplace communication procedures
	Communicate at workplace
	Draft Written Information
	Review Documents
I	Perform Basic Communication (Specific)
	Communicate in a team to achieve intended outcomes
	 Follow Supervisor's instructions as per organizational SOPs
	Develop Generic communication skills at workplace
1	Perform Basic Computer Application (Specific)
	Create Word Documents
	Create Excel Documents
	Use internet for Browsing
	Maintain Machine (with Engine Off)
	Inspect and Service of lubrication system
	Inspect and Service electrical system
	Inspect and Service hydraulic system
	Inspect and Service cooling system
	Inspect and Service of air intake system
	Inspect and Service of fuel system
	Inspect and Service of suspension system
	Inspect and Service of drive train
	Inspect and Service of braking system
	Inspect and Service of load bearing structure
	Inspect and Service of operator station/Cab
	Inspect Equipment safety
	Inspect and Service of attachments
	 Inspect and Service of supporting pneumatic (Air-filled) system
I	Maintain Machine (with Engine Running)
	Monitor warning systems
	Warm up engine
	Cycle equipment functions
	Scheduled Maintenance Requirements
	• Logbook
	-

 Clean under carriage and attachments before parking Park equipment in appropriate location Shut down and secure equipment Housekeeping tasks Visual inspection Apply Work Health and Safety Practices (WHS) Implement safe work practices at work place Participate in hazard assessment activities at a work place Participate in OHS consultative processes Identify and Implement Workplace Policy and Procedures Identify workplace policy & procedures Implement workplace policy & procedures Implement workplace policy & procedures Communicate workplace policy & procedures Review the implementation of workplace policy & procedures Communicate outside the organization Communicate effectively in workgroup Communicate effectively in workgroup Communicate in writing Perform Computer Application Skills Prepare In-page documents as per required information Prepare Spreadsheets as per required information Perform computer graphics in basic applications Create Email account for communications Manage Personal Finances Identify ways to maximize future finances Transport Machines Prepare to load machine and attachments Loading machine and attachments Unload or assist with unloading machine and attachments Prive rubber-tired machine for road travel Drive rubber-tired machine on public roads 	Park	Machines
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Prepare rubber-tired machine for road travel	•	-
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•	Operate controls
•	Strip and stockpile surface materials
٠	Cut and fill material
•	Create slopes
٠	Create ditches
٠	Spread ballast
٠	Rip dense materials
٠	Clear land
٠	Push scraper
Opera	ate wheel Loader
•	Install attachments
٠	Operate controls
•	Dig, carry (tram) & stockpile materials
٠	Place and spread materials
٠	Backfill trenches &excavate
٠	Load trucks
Contr	ibute to Work Related Health and Safety (WHS) Initiatives
•	Contribute to initiate work-related health and safety measures
٠	Contribute to establish work-related health and safety measures
٠	Contribute to ensure legal requirements of WHS measures
•	Contribute to review WHS measures
٠	Evaluate the organization's WHS system
Analy	ze Workplace Policy and Procedures
•	Manage work timeframes
•	Manage to convene meeting
•	Decision making at workplace
•	Set and meet own work priorities at instant
•	Develop and maintain professional competence
•	Follow and implement work safety requirements
Perfo	rm Advanced Communication
•	Demonstrate professional skills
•	Plan and Organize work
٠	Provide trainings at workplace
Devel	op Advance Computer Application Skills
•	Manage Information System to complete a task
٠	Prepare Presentation using computers
٠	Use Microsoft Access to manage database
•	Develop graphics for Design
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viana	ge Human Resource Services
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Determine strategies for delivery of human resource services
 Manage the delivery of human resource services
Evaluate human resource service delivery
Manage integration of business ethics in human resource practices
Develop Entrepreneurial Skills
Develop a business plan
Collect information regarding funding sources
Develop a marketing plan
Develop basic business communication skills
Operate Excavator
 Safaty requirements
Safety requirementsSets up equipment
 Install attachments
Operate controls of Wheel Excavator
Operate controls of Crawler Excavator
Create slopes
Build, excavate, and maintain haul roads and ramps
Create mass excavation.
Excavate trenches
Excavate ditches
Load trucks
Cut and fills materials
Stock piles materials
Excavate and back fills trenches
Hoist objects
Clear land
Demolish buildings and other structures
Performance of machines
Operate Grader
Operate controls
 Grading fundamentals
Form and handle windrows
Strip surface materials
Cut and fill material
Maintain access roads
Create slopes
Create ditches
Create shouldering
 Form sub-Grade
 Finish grading

Course	Total duration of course:6 months (26 Weeks)				
Execution Plan	Class hours: 4 hours per day				
	Гheory: 20%				
	Practical: 80% Weekly hours: 20 hours per week				
	otal contact hours: 520hours				
Companies offering jobs in the respective trade	 Construction Sector Industrial Sector Supervisors 				
Job	Comply with Work Health and Safety Policies				
Opportunities/jo	Obey the Workplace Policies and Procedures				
b titles	 Follow Basic Communication Skills (General) 				
	 Operate Computer Functions (General) 				
	 Identify Machine & its Attachments 				
	 Comply with Personal Health and Safety Guidelines 				
	 Communicate the Workplace Policy and Procedure 				
	 Perform Basic Communication (Specific) 				
	 Perform Basic Computer Application (Specific) 				
	 Maintain Machine (with Engine Off) 				
	 Maintain Machine (with Engine Running) 				
	Park Machines				
	Apply Work Health and Safety Practices (WHS)				
	Identify and Implement Workplace Policy and Procedures				
	Communicate at Workplace				
	Perform Computer Application Skills				
	Manage Personal Finances Transport Maskings				
	Transport Machines				
	Operate Bulldozer Operate wheel Leader				
	Operate wheel Loader Contribute to Work Related Health and Safety (WHS) Initiatives				
	 Contribute to Work Related Health and Safety (WHS) Initiatives Analyze Workplace Policy and Procedures 				
	 Analyze Workplace Policy and Procedures Perform Advanced Communication 				
	 Develop Advance Computer Application Skills 				
	 Develop Advance Computer Application Skills Manage Human Resource Services 				
	 Develop Entrepreneurial Skills 				

	 Operate Excavator Operate Grader
No of Students	25
Learning Place	Classroom / Training Area
Instructional Resources	

MODULES

Scheduled Weeks	Module Title	Learning Units	Remarks
Week 1	Comply with Work Health and Safety Policies Obey the Workplace Policies and Procedures &Motivational Lecture	 Students are introduced to: Comply with Work Health and Safety Policies Work safely at work place Communicate work health and safety (WHS) assess at work place Minimize risks to personal safety at work place Minimize risks to public safety Obey the Workplace Policies and Procedures Obey the workplace personal appearance and hygiene Follow work ethics Demonstrate the work place behaviours Communicate workplace policy & procedures Review the implementation of workplace policy & procedures 	Home Assignment • Task 1 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 2	Follow Basic Communication Skills (General) Operate Computer Functions (General) & Success stories	 Students are introduced to: Follow Basic Communication Skills (General) Adopt effective listening to skills Develop nonverbal communication with peers Prepare for Interview to get a job Use communication platform at workplace Identify communication barriers to improve interpersonal skills Operate Computer Functions (General) 	 Task 2 Task 3 Details may be seen at Annexure-I

Week 3	Identify Machine & its Attachments And Motivational Lecture	 Set up the computer for use Organize files in folder Shut down computer system Students are introduced to: Identify Machine & its Attachments Identify machine and its sizes. Identify components & attachments Identify capacities & capabilities of machine Identify basic tools and supplies associated with machines Maintain inventory of tools and equipment. 	• Task 4 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u> • Monthly Test 1
Week 4	Comply with Personal Health and Safety Guidelines Communicate the Workplace Policy and Procedure And Success stories	 Students are introduced to: Comply with Personal Health and Safety Guidelines Identify Personal Hazards at work place Apply personal protective and safety equipment (PPE) Comply with occupational safety and health (OSH) Dispose of hazardous waste/materials from the designated area 	• Task 5 • Task 6 Details may be seen at Annexure-I
		 Communicate the Workplace Policy and Procedure Identify workplace communication procedures Communicate at workplace Draft Written Information Review Documents 	
Week 5	Perform Basic Communication (Specific) Perform Basic Computer Application	 Students are introduced to: Perform Basic Communication (Specific) Communicate in a team to achieve intended outcomes Follow Supervisor's instructions as per organizational SOPs 	Task 7 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>

Week 6	(Specific) &Motivational Lecture Maintain Machine (with Engine Off)	 Develop Generic communication skills at workplace Perform Basic Computer Application (Specific) Create Word Documents Create Excel Documents Use internet for Browsing Students are introduced to: Maintain Machine (with Engine Off) 	
	& Success stories	 Inspect and Service of lubrication system Inspect and Service electrical system Inspect and Service hydraulic system Inspect and Service cooling system Inspect and Service of air intake system Inspect and Service of fuel system Inspect and Service of suspension system Inspect and Service of drive train Inspect and Service of braking system Inspect and Service of load bearing structure Inspect and Service of operator station/Cab Inspect and Service of attachments Inspect and Service of supporting pneumatic (Air-filled) system 	• Task 8 • Task 9 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 7	Maintain Machine (with Engine Running) And Motivational Lecture	 Students are introduced to: Maintain Machine (with Engine Running) Monitor warning systems Warm up engine Cycle equipment functions Scheduled Maintenance Requirements Logbook 	 Task 10 Task 11 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 8	Park Machines	Students are introduced to: Park Machines • Clean under carriage and attachments	• Task 12 <u>Details may</u> <u>be seen at</u>

	And Success stories	 before parking Park equipment in appropriate location Shut down and secure equipment Housekeeping tasks Visual inspection 	<u>Annexure-I</u>	
Week 9	Apply Work Health and Safety Practices (WHS) &Motivational Lecture	 Students are introduced to: Apply Work Health and Safety Practices (WHS) Implement safe work practices at work place Participate in hazard assessment activities at a work place Follow emergency procedures at workplace Participate in OHS consultative processes 	• Task 13 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>	
Week 10	Identify and Implement Workplace Policy and Procedures And Success stories	 Students are introduced to: Identify and Implement Workplace Policy and Procedures Identify workplace policy & procedures Implement workplace policy & procedures Communicate workplace policy & procedures Review the implementation of workplace policy & procedures 	• Task 14 • Task 15 Details may be seen at Annexure-I	
Week 11	Communicate at Workplace &Motivational Lecture	 Students are introduced to: Communicate at Workplace Identify workplace policy & procedures Implement workplace policy & procedures Communicate workplace policy & procedures Review the implementation of workplace policy & procedures 	 Task 16 Task 17 Details may be seen at Annexure-I 	
Week 12	Perform Computer	Students are introduced to:	• Task 18	

	Application Skills	Perform Computer Application Skills	
	&Success stories	 Prepare In-page documents as per required information Prepare Spreadsheets as per required information Use MS Office as per required information Perform computer graphics in basic applications Create Email account for communications 	<u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 13		Midterm	
Week 14	Manage Personal Finances	Students are introduced to: Manage Personal Finances	 Home Assignment
	&Success stories	 Develop a personal budget Develop long term personal budget Identify ways to maximize future finances 	 Task 19 Task 20 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 15	Transport Machines &Motivational Lecture	 Students are introduced to: Transport Machines Prepare to load machine and attachments Loading machine and attachments Securing machine and attachments Unload or assist with unloading machine and attachments Prepare rubber-tired machine for road travel Drive rubber-tired machine on public roads 	• Task 21 • Task 22 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 16	Operate Bulldozer	Students are introduced to: Operate Bulldozer	 Task 23 Task 24 Task 25

	&Success stories	 Operate controls Strip and stockpile surface materials Cut and fill material Create slopes Create ditches Spread ballast Rip dense materials Clear land Push scraper 	<u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 17	Operate wheel Loader &Motivational Lecture	 Students are introduced to: Operate wheel Loader Install attachments Operate controls Dig, carry (tram) & stockpile materials Place and spread materials Backfill trenches & excavate Load trucks 	 Task 26 Task 27 Task 28 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 18	Contribute to Work Related Health and Safety (WHS) Initiatives & Success stories	 Students are introduced to: Contribute to Work Related Health and Safety (WHS) Initiatives Contribute to initiate work-related health and safety measures Contribute to establish work-related health and safety measures Contribute to ensure legal requirements of WHS measures Contribute to review WHS measures Evaluate the organization's WHS system 	• Task29 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u> • Monthly Test 5
Week 19	On job training (2 weeks)	 On job training for 2 weeks: Aims to provide 2 weeks industrial training to the Trainees as part of overall training program Ideal for the manufacturing trades As an alternate to the projects that involve expensive equipment Focuses on increasing Trainee's 	

		motivation, productivity, efficiency and quick learning approach.	
Week 20	Analyze Workplace Policy and Procedures	Students are introduced to: Analyze Workplace Policy and Procedures	Task 30Task 31
	Perform Advanced Communication	 Manage work timeframes Manage to convene meeting Decision making at workplace Set and meet own work priorities at instant 	<u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
	&Motivational Lecture	 Develop and maintain professional competence Follow and implement work safety requirements 	
		Perform Advanced Communication	
		 Demonstrate professional skills Plan and Organize work Provide trainings at workplace 	
Week 21	Develop Advance Computer Application Skills	Students are introduced to: Develop Advance Computer Application Skills	• Task 32
			Details mav
	&Motivational Lecture	 Manage Information System to complete a task Prepare Presentation using computers Use Microsoft Access to manage database Develop graphics for Design 	<u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 22		 complete a task Prepare Presentation using computers Use Microsoft Access to manage database 	<u>be seen at</u>

Week 23	Develop Entrepreneurial Skills &Motivational Lecture	 Students are introduced to: Develop Entrepreneurial Skills Develop a business plan Collect information regarding funding sources Develop a marketing plan Develop basic business communication skills 	• Task 34 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 24	Operate Excavator &Success stories	 Students are introduced to: Operate Excavator Safety requirements Sets up equipment Install attachments Operate controls of Wheel Excavator Operate controls of Crawler Excavator Create slopes Build, excavate, and maintain haul roads and ramps Create mass excavation. Excavate trenches Excavate ditches Load trucks Cut and fills materials Stock piles materials Excavate and back fills trenches Hoist objects Clear land Demolish buildings and other structures Performance of machines 	• Task 35 • Task 36 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>
Week 25	Operate Grader &Motivational Lecture	 Students are introduced to: Operate Grader Operate controls Grading fundamentals Form and handle windrows Strip surface materials Cut and fill material Maintain access roads 	 Task 37 Task 38 <u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>

		 Create slopes Create ditches Create shouldering Form sub-Grade Finish grading Clear snow and ice 	
Week 26	Plan Work &Success stories	Students are introduced to: Plan Work	• Task 39 • Task 40
		 Site hazards Work procedures Symbols and markings Survey markers, construction grades, and stakes Drawings and plans Environmental concerns with site personnel Grades and stakes Grade checking devices Review job specifications and safety considerations with site personnel 	<u>Details may</u> <u>be seen at</u> <u>Annexure-I</u>

Week	Task No.	Description				
Week-1	Task-1	Explore Work Health and Safety Policies according to construction sector				
Week-2	Task-2	Follow Basic Communication Skills related to heavy machinery				
Week-2	Task-3	Operate Computer Functions related to heavy machinery				
Week-3	Task-4	Identify Machines and Its attachments				
Week-4	Task-5	Explore Personal Health and Safety Guidelines				
Week 4	Demonstrate the Workplace Policy and Procedure					
Week-5	Task-7	Operate Basic Computer Application				
Week-6	Task-8	Inspect and Service cooling system				
Meek 0	Task-9	Inspect and Service of lubrication system				
Week-7	Task-10	Check Warm up engine				
Meek /	Task-11	Check Logbook				
Week-8	Task-12	Perform Visual inspection of machine				
Week-9	Task-13	Follow emergency procedures at workplace				
Week-10	Task-14	Identify workplace policy & procedures				
WCCR-10	Task-15	Communicate workplace policy & procedures				
Week-11	Task-16	Communicate within the organization				
Week-II	Task-17	Communicate outside the organization				
Week-12	Task-18	Create Email account for communications				
Week-13		Midterm				
Week-14 Task-19		Develop a personal budget				
MCCR-14	Task-20	Identify ways to maximize future finances				
Week-15	Task-21	Prepare to load machine and attachments				
MCCR-10	Task-22	Prepare rubber-tired machine for road travel				
	Task-23	Cut and fill material				
Week-16	Task-24	Create slopes				
	Task-25	Clear land				
	Task-26	Place and spread materials				
Week-17	Task-27	Backfill trenches & excavate				
	Task-28	Load trucks				
Week-18	Task-29	Contribute to review WHS measures				
Week-19		Project week				
Week-20	Task-30	Follow and implement work safety requirements				
	Task-31	Plan and Organize work				
Week-21	Task-32	Manage Information System to complete a task				
Week-22	Task-33	Evaluate human resource service delivery				
Week-23	Task-34	Develop a marketing plan				

Week-24	Task-35	Load trucks
WCCK-24	Task-36	Cut and fills materials
Week-25	Task-37	Create shouldering
WCCR-2J	Task-38	Form sub-Grade
Week-26	Task-39	Identify Site hazards
WCCK-20	Task-40	Apply Symbols and markings

What is freelancing and how you can make money online - BBCURDU

https://www.youtube.com/watch?v=9jCJN3Ff0kA

What Is the Role of Good Manners in the Workplace? By Qasim Ali Shah | In Urdu

https://www.youtube.com/watch?v=Qi6Xn7yKIIQ

Hisham Sarwar Motivational Story | Pakistani Freelancer

https://www.youtube.com/watch?v=CHm_BH7xAXk

21 Yr Old Pakistani Fiverr Millionaire | 25-35 Lakhs a Month Income | Interview

https://www.youtube.com/watch?v=9WrmYYhr7S0

Success Story of a 23 Year - Old SEO Expert | How This Business Works | Urdu Hindi Punjabi

https://www.youtube.com/watch?v=tlQ0CWgszl0

Failure to Millionaire - How to Make Money Online | Fiverr Superhero Aaliyaan Success Story

https://www.youtube.com/watch?v=d1hocXWSpus

Annexure-III

SUGGESTIVE FORMAT AND SEQUENCE ORDER OF MOTIVATIONAL LECTURE.

Mentor

Mentors are provided an observation checklist form to evaluate and share their observational feedback on how students within each team engage and collaborate in a learning environment. The checklist is provided at two different points: Once towards the end of the course. The checklists are an opportunity for mentors to share their unique perspective on group dynamics based on various team activities, gameplay sessions, pitch preparation, and other sessions, giving insights on the nature of communication and teamwork taking place and how both learning outcomes and the student experience can be improved in the future.

Session-1 (Communication):

Please find below an overview of the activities taking place Session plan that will support your delivery and an overview of this session's activity.

Session- 1 OVERVIEW
Aims and Objectives:
To introduce the communication skills and how it will work
 Get to know mentor and team - build rapport and develop a strong sense of a team
 Provide an introduction to communication skills
• Team to collaborate on an activity sheet developing their communication, teamwork, and

- Gain an understanding of participants' own communication skills rating at the start of the
- Gain an understanding of participants' own communication skills rating at the start of th program

Activity:	Partici	pant Time	Teacher Time		Mentor Time
Intro Attend and					
contribute to the					
scheduled.					
Understand good					
communication skills					
and how it works.					
Understand what					
good communication					
skills mean					
Understand what					
skills are important for					
good communication					
skills					
Key learning outcomes:		Resources:		Enterp	rise skills developed:
Understand the		 Podiun 	า	•Com	munication

 communication skills and how it works. Understand what communication skills mean Understand what skills are important for communication skills 	 Projector Computer Flip Chart Marker 	 Self Confidence Teamwork 	
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Schedule	Mentor Should do	
Welcome: 5 min	Short welcome and ask the Mentor to introduce him/herself. Provide a brief welcome to the qualification for the class. Note for Instructor: Throughout this session, please monitor the session to ensure nothing inappropriate is being happened.	
Icebreaker: 10 min	 Start your session by delivering an icebreaker, this will enable you and your team to start to build rapport and create a team presentation for the tasks ahead. The icebreaker below should work well at introductions and encouraging communication, but feel free to use others if you think they are more appropriate. It is important to encourage young people to get to know each other and build strong team links during the first hour; this will help to increase their motivation and communication throughout the sessions. 	
Introduction & Onboarding: 20mins	 and communication throughout the sessions. Provide a brief introduction of the qualification to the class and play the "Onboarding Video or Presentation". In your introduction cover the following: Explanation of the program and structure. (Kamyab jawan Program) How you will use your communication skills in your professional life. Key contacts and key information – e.g. role of teacher, mentor and SEED. Policies and procedures (user agreements and "contact us" section). Everyone to go to the Group Rules tab at the top of their screen, read out the rules, and ask everyone to verbally agree. Ensure that the consequences are clear for using the platform outside of hours. (9am-8pm) What is up next for the next 2 weeks ahead so young people know what to expect (see pages 5-7 for an overview of the challenge). Allow young people to ask any questions about the session topic. 	

Team Activity Planning: 30 minutes	MENTOR: Explain to the whole team that you will now be planning how to collaborate for the first and second collaborative Team Activities that will take place outside of the session. There will not be another session until the next session so this step is required because communicating and making decisions outside of a session requires a different strategy that must be agreed upon so that everyone knows what they are doing for this activity and how.
	 "IDENTIFY ENTREPRENEURS" TEAM ACTIVITY "BRAINSTORMING SOCIAL PROBLEMS" TEAM ACTIVITY" As a team, collaborate on a creative brainstorm on social problems in your community. Vote on the areas you feel most passionate about as a team, then write down what change you would like to see happen. Make sure the teams have the opportunity to talk about how they want to work as a team through the activities e.g. when they want to complete the activities, how to communicate, the role of the project manager, etc. Make sure you allocate each young person
	a specific week that they are the project manager for the weekly activities and make a note of this. Type up notes for their strategy if this is helpful - it can be included underneath the Team Contract.
Session Close: 5 minutes	 MENTOR: Close the session with the opportunity for anyone to ask any remaining questions. Instructor: Facilitate the wrap-up of the session. A quick reminder of what is coming up next and when the next session will be.

Motivational Lectures and Success Stories (Course Outlines)

Sr #	Topic title	Contents	Theme
1	Success stories	 Story of Skill worker who get good job. Entrepreneur /self-business Freelancer 	 Family Background How to get Training How to get job Success trait Few word of advice for youth
2	Motivational Lectures	 Soft skills work Ethics Personality Grooming 	Good Habits Punctuality Honesty Positive attitude Interpersonal skills Determinant Consistent Welling worker Team work Initiative Hardworking Creative Enthusiastic Goal oriented Self-motivated Communication Loyalty

MOTIVATIONAL LECTURES LINKS.

TOPIC	<u>SPEAKER</u>	
How to Face Problems In Life	Qasim Ali Shah	https://www.youtube.com/watch?v=OrQte08MI90
Just Control Your Emotions	Qasim Ali Shah	https://www.youtube.com/watch?v=JzFs_yJt-w
How to Communicate Effectively	Qasim Ali Shah	https://www.youtube.com/watch?v=PhHAQEGehKc
Your ATTITUDE is Everything	Tony Robbins Les Brown David Goggins Jocko Willink	https://www.youtube.com/watch?v=5fS3rj6eIFg

	Wayne Dyer Eckart Tolle	
Control Your EMOTIONS	Jim Rohn Les Brown TD Jakes	https://www.youtube.com/watch?v=chn86sH0O5U
	Tony Robbins	
Defeat Fear, Build Confidence	Shaykh Atif Ahmed	https://www.youtube.com/watch?v=s10dzfbozd4
Wisdom of the Eagle	Learn Kurooji	https://www.youtube.com/watch?v=bEU7V5rJTtw
The Power of ATTITUDE	Titan Man	https://www.youtube.com/watch?v=r8LJ5X2ejqU
STOP WASTING TIME	Arnold Schwarzenegger	https://www.youtube.com/watch?v=kzSBrJmXqdg
Risk of Success	Denzel Washington	https://www.youtube.com/watch?v=tbnzAVRZ9Xc

Annexure-IV

SUCCESS STORY

S. No	Key Information	Detail/Description
1.	Self & Family background	 Danyal Saleem, who lives in Mirpur (AJK), is an example of how hard work and perseverance can reap rich rewards when bidding for projects online. The graphic designer works exclusively on an online freelancing platform and has earned, on average, US\$20,000 per month for the past several months. But this isn't a story of overnight success – Danyal has had to work hard to differentiate himself and stay true to his goal. It was a full year later, in May 2017, when Danyal finally decided to jump in. He signed up for one of the numerous sites that connect designers or coders with
		people or companies that have small projects, like

		designing a logo or building a website. He had already started a small business to help pay for his college education, so he was nervous and apprehensive about the decision. "I gave myself two or three months at most. If I didn't succeed, then I would go back to running the business as it was showing potential," he says. If at first, you don't succeed, try try again
2.	How he came on board NAVTTC Training/ or got trained through any other source	Certification in graphic designing from STEPS(NAVTTC partner institute)
3.	Post-training activities	 Danyal's area of expertise is in graphic design. In his first month using Fiverr, he pitched mostly for projects centered around logo designing. But it wasn't so simple. In the first few weeks, he didn't hear back from even a single client, despite pitching for dozens of projects. "I needed to understand what worked, so I read blogs, participated in forums, and analyzed profiles of successful freelancers. It was an uphill struggle, but I didn't want to give up," he explains. Danyal says he understands why clients would be apprehensive giving projects to untested freelancers. They have hundreds of options to choose from, he explains, and to give a project to someone with no experience requires a strong leap of faith. A slow stream of projects started to come Danyal's way. Within a few months, he was landing an average of a hundred projects every month, with a large number of repeat clients. He also expanded the range of his professional services, branching out from logo design to business cards, banners, Facebook cover pages, letterheads, and stationery. But he's had to face his fair share of challenges too. The shoddy state of internet infrastructure in his city, Mirpur, threatened to derail his freelancing career. "Sometimes I haven't had connectivity for two days straight," he explains. "That's unthinkable for someone who makes his livelihood on the internet."

4	Success Traits	Success Traits (characteristics) Good Habits Punctuality Honesty Positive attitude Interpersonal skills Determinant Consistent Welling worker Team work Initiative Hardworking Creative Enthusiastic Goal oriented Self-motivated Communication Loyalty
4.	Message to others (under training)	Take the training opportunity seriously Impose self-discipline and ensure regularity Make Hard work pays in the end so be always ready for the same.

<u>Note:</u>Success story is a source of motivation for the trainees and can be presented in several ways/forms in a NAVTTC skill development course as under: -

- 1. To call a passed out successful trainee of the institute. He will narrate his success story to the trainees in his own words and meet trainees as well.
- **2.** To see and listen to a recorded video/clip (5 to 7 minutes) showing a successful trainee Audio-video recording that has to cover the above-mentioned points.*
- **3.** The teacher displays the picture of a successful trainee (name, trade, institute, organization, job, earning, etc) and narrates his/her story in the teacher's own motivational words.

*The online success stories of renowned professional can also be obtained from Annex-II

Annexure-V:

Workplace/Institute Ethics Guide

Work ethic is a standard of conduct and values for job performance. The modern definition of what constitutes good work ethics often varies. Different businesses have different expectations. Work ethic is a belief that hard work and diligence have a moral benefit and an inherent ability, virtue, or value to strengthen character and individual abilities. It is a set of values-centered on the importance of work and manifested by determination or desire to work hard.

The following ten work ethics are defined as essential for student success:

1. Attendance:

Be at work every day possible, plan your absences don't abuse leave time. Be punctual every day.

2. Character:

Honesty is the single most important factor having a direct bearing on the final success of an individual, corporation, or product. Complete assigned tasks correctly and promptly. Look to improve your skills.

3. Team Work:

The ability to get along with others including those you don't necessarily like. The ability to carry your weight and help others who are struggling. Recognize when to speak up with an idea and when to compromise by blend ideas together.

4. Appearance:

Dress for success set your best foot forward, personal hygiene, good manner, remember that the first impression of who you are can last a lifetime

5. Attitude:

Listen to suggestions and be positive, accept responsibility. If you make a mistake, admit it. Values workplace safety rules and precautions for personal and co-worker safety. Avoids unnecessary risks. Willing to learn new processes, systems, and procedures in light of changing responsibilities.

6. <u>Productivity</u>:

Do the work correctly, quality and timelines are prized. Get along with fellows, cooperation is the key to productivity. Help out whenever asked, do extra without being asked. Take

pride in your work, do things the best you know-how. Eagerly focuses energy on accomplishing tasks, also referred to as demonstrating ownership. Takes pride in work.

7. Organizational Skills:

Make an effort to improve, learn ways to better yourself. Time management; utilize time and resources to get the most out of both. Take an appropriate approach to social interactions at work. Maintains focus on work responsibilities.

8. Communication:

Written communication, being able to correctly write reports and memos. Verbal communications, being able to communicate one on one or to a group.

9. Cooperation:

Follow institute rules and regulations, learn and follow expectations. Get along with fellows, cooperation is the key to productivity. Able to welcome and adapt to changing work situations and the application of new or different skills.

10. Respect:

Work hard, work to the best of your ability. Carry out orders, do what's asked the first time. Show respect, accept, and acknowledge an individual's talents and knowledge. Respects diversity in the workplace, including showing due respect for different perspectives, opinions, and suggestions.