Annexure I

Training Delivery Plan

Training Delivery Plan						
Program Name:	Assistant Technician-Drilling (Oil & Gas)					
Qualification Pack Name & Ref. ID	Assistant Technician-Drilling (Oil & Gas), HYC/Q 0101					
Version No.	1.0 Version Update Date 31/03/201					
Pre-requisites to Training (if any)	Class XII or Class X+2 year of ITI course					
	By the end of this program, the participants will be able to:					
	1. Learn to perform drilling operation					
Training Outcomes	2. Comprehend to occupational health and safety					
Training Outcomes	3. Learn to work effectively	with colleagues and superv	isor			
	4. Learn Soft Skills					
	5. Learn Communication Sk	kills				

Sr. No.	Module Name	Session Name	Session Objectives	NOS Reference	Methodology	Training Tools/Aids	Duration (hours)
1	Pertorm	Oil & Gas Drilling Processes	Knowing Organisational SOP on Drilling Process. Knowing basic Oil & Gas Drilling Process and Operations. Filling up appropriate technical forms, activity logs in required format of the company Planning and organize their own work schedule, work area, tools, equipment and materials to maintain decorum and for improved productivity	HYC/N0101 KA 1, KB 1, SA 1, SB 1	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
	Operation	(Session 1)	Practical Understanding and knowledge of the types of Oil & Gas Wells Understanding Platform types for underwater drilling Submersible barges and platforms. Understanding of working at height, operation at monkey board, top man escape device Having knowledge of the Wellhead	HYC/N0101 PC 1, PC 2, PC PC 7, PC 8,	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

	 Risking and impacting of not following defined procedures/ work instructions Communicating in the local language (preferable) Thinking through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) 	HYC/N0101 KA 2, SA 7, SB 2	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
Oil & Gas Drilling Processes (Session 2)	 Practical Having knowledge of the on shore Well Components Identifying Upstream process sections: Wellhead, Manifolds and gathering, Separation, Metering, storage and export and Utility systems. Understanding the Components of Drilling Rig (derrick, floor, drawworks, drive and mud handling, drill string, Drill Collar, Blowout Preventer, turn table, Crown Block, Top drive, Iron Roughneck, Mud Pumps.) Understanding the components of Well: Well casing - Conductor casing, Surface casing, Intermediate casing, Production casing. 	HYC/N0101 PC 3, PC 4, PC 5, PC 6	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Oil & Gas Drilling Processes (Session 3)	 Following basic Maintenance Hand Tools Identifying immediate or temporary solutions to resolve delays 	HYC/N0101 KB 2, SB 3	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours

	 Practical Performing Artificial lift operation: Rod pumps, electrical submerged pump (ESP), Gas lift and Plunger lift. Having knowledge of the Well work over, intervention and stimulation. Understanding Manifolds and gathering. 	HYC/N0101 PC 9, PC 10, PC 11	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Drilling Tech-	 Knowing escalation matrix for reporting identified incidents, troubles and/ or emergencies e.g. system failures ,fire and power failures Learning basic Measuring and Marking-out Instruments Identifying sources of support that can be availed of for problem solving for various kind of problems 	HYC/N0101 KA 3 KB 3 SB 4	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
niques (Session 4	 Practical Understanding/ knowledge of the Drilling Methods Drilling rigs Percussion or cable drilling Rotary drilling Rotary percussion drilling Electro and turbo drilling Directional drilling explosive drilling and flame piercing 	HYC/N 0101 PC 12	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

Drilling Tech- niques (Session 5)	 Recording to be maintained and implications of non- maintenance of the same Maintaining proper records as per given format Seeking appropriate assistance from other sources to resolve problems 	HYC/N0101 KA 4 SA 2 SB 5	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours
	 Practical Perform Abandonment Process Perform drilling Operations ♦ Drilling techniques ♦ Drilling mud ♦ Casing and cementation 	HYC/N0101 PC 13, PC 14	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	6 hours
Drilling Tech- niques (Session 6)	 Learning basic Engineering Communications Liaisioning and coordination skills Reporting problems that you cannot resolve to appropriate authority Identifying defects in the material and communicate it at the earliest and suggest 	HYC/N0101 KB 4 SA 5 SB 6 SB 7	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster	8 hours
	 Practical Understanding Completion, Enhanced Recovery and work over Operations. Understanding a Typical Drilling Program. 	HYC/N 0101 PC 15, PC 16	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	6 hours

Ba Oper and I tena Te niq (Sess	Nain- ncein process/material based on experience.h- uesApplying problem- solving approaches in	HYC/N0101 KA 5 KB 5 SA 3 SB 8, SB 9	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster	8 hours
	 Practical Preparing for basic routine maintenance tasks. Describing basic routine maintenance techniques Carrying out basic routine maintenance tasks. Carrying out basic inspections. 	HYC/N0101 PC 17, PC 18, PC 19, PC 20	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
and I tena Te niq	ationsupervisor and peersAain-Referring anomalies toncethe line manager	HYC/N0101 KB 6 SA 4,SA 6 SB 10,SB 11	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er	8 hours

			- ··· ·				
			 Practical Identifying the use of basic maintenance hand tools. Demonstrating the use of basic hand tools for maintenance tasks and the production of an artefact. Demonstrating the care of basic maintenance hand tools. 	HYC/N0101 PC 21, PC 22, PC 23	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
			 Knowing names (and job titles if applicable), and where to find, all the people responsible for health and safety in a workplace. Knowing Occupational health and safety. Filling up appropriate technical forms, activity logs in required format of the company. 	HYC/N0102 KA 1 KB 1 SA 1	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours
2	Occu- pational 2 health and Safety (OHAS)	Occu- pational health and safety (OHAS) (Session 1)	 Practical Using protective clothing/equipment for specific tasks like cutting, welding, repairing in pipeline jobs, well operations, and maintenance inside the installation and work conditions during day to day work and during emergency. Stating the name and location of people responsible for health and Safety for the workplace and escalation matrix 	HYC/N0102 PC 1, PC 2	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
		Occu- pational health and safety (OHAS) (Session 2)	 Planning names and location of documents that refer to health and safety in the workplace. Being courteous to the customers Making decisions on a suitable course of action or response. 	HYC/N0102 KA 2 SA 4 SB 1	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours

	 Identifying job-site hazardous work and state possible causes of risk or possible accidents in the workplace. Carrying out safe working practices while dealing with hazards to ensure the safety of self and others state methods of accident prevention in the work environment of the job role. Identifying common risks and safety SOP in Oil & Gas production area. 	HYC/N0102 PC 3, PC 4, PC 7	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Occu- pational health	 Planning SHE and OHS guidelines and regulations as per company's norms Understanding of 5S and Housekeeping. Planning and organizing their own work schedule, work area, tools, equipment and materials to maintain decorum and for improved productivity. 	HYC/N0102 KA 6 KA 7 SB 2	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours
and safety (OHAS) (Session 3)	 Practical Stating location of general health and safety equipment in the workplace. Inspecting for faults set up and safely use steps and ladders in general use. Working safely in and around trenches, elevated places and confined areas. 	HYC/N0102 PC 5, PC 6, PC 8	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

Fire safety and emer- gency pro- cedures (Session 4)	 Knowing risk and impact of not following defined procedures/ work instructions Recognising the hazards and its effects and risk assessment Maintaining proper records as per given format Thinking through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) 	HYC/N0102 KA 3 KB 2 SA 2 SB 7	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
	 Practical Using the various appropriate fire extinguishers on different types of fires correctly 	HYC/N0102 PC 9	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Fire safety and emer- gency pro- cedures (Session 5)	 Knowing escalation matrix for reporting identified incidents, troubles and/ or emergencies e.g. system failures ,fire and power failures Following standard Operating Procedures in Oil and Gas Safety w.r.t. occupational health & safety Identifying immediate or temporary solutions to resolve delays 	HYC/N0102 KA 4 KB 6 SB 8	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours
	 Practical Identifying and follow proactive and reactive fire fighting SOP in Oil & Gas production facilities. Performing Fire Evacuation Steps. 	HYC/N0102 PC 10, PC 11	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

Fire safety and emer- gency pro- cedures (Session 6)	 Knowing safe Working Practices Liaisioning and coordination skills Identifying sources of support that can be availed of for problem solving for various kind of problems Applying problem- solving approaches in different situations 	HYC/N0102 KB 3 SA 5 SB 9 SB 13	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours
	 Practical Preparing incident Reports 	HYC/N0102 PC 12	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Emer- gencies, rescue and first-aid proce- dures (Session 7)	 Maintaining records to be maintained and implications of non- maintenance of the same. Comprehending various types of Fire Fighting Equipment& its uses in different conditions Using of different types of Personal Protective Equipment (PPE) Reading and understanding manuals, work orders, health and safety instructions, memos, reports etc Communicating with supervisor and peers Seeking appropriate assistance from other sources to resolve problems Reporting problems that you cannot resolve to appropriate authority Identifying defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience 	HYC/N0102 KA 5 KB 4 KB 5 SA 3 SA 6 SB 10, SB 11, SB 12	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours

	 Practical Making availability of First Aid box & accessories Demonstrating how to free a person from electrocution. Administering appropriate first aid to victims were required eg. in case of bleeding, burns, choking, electric shock, poisoning etc. Administering appropriate first aid in 	HYC/N0102 PC 13, PC 14, PC 15, PC 16	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Em gene rescu first	es, cannot be solved as per and the troubleshooting/	HYC/N0102 KB 7 SA 7 SB 14 SB 15 SB 18	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk,dust- er.	8 hours
pro du (Sessi	• Performing and	HYC/N0102 PC 17, PC 18, PC 19, PC 20	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

3	Work effectively with colleagues and supervisor	Work effectively with colleagues (Session 1)	 Risking and impacting of not following defined procedures/ work instructions. Knowing importance of effective communication in the workplace Knowing the key elements of active listening Understanding the value and importance of active listening and assertive communication Filling up appropriate technical forms, activity logs in required format of the company based on the SOP Making decisions on a suitable course of action or response Planning and organizing their own work schedule, work area, tools, equipment and materials to maintain decorum and for improved productivity 	HYC/N0103 KA 3 KB 3, KB 6, KB 7 SA 1 SB 1 SB 2	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
			 Practical Receiving accurate information and instructions from the supervisor and fellow workers, getting clarification where required Passing on information to the authorized persons who require it and within agreed timescale and confirm its receipt. 	HYC/N0103 PC 1, PC 2	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

Work effectively with colleague (Session 2	• Thinking through the problem, evaluate the	HYC/N0103 KA 4 KB 4 KB 8 SA2 SB 4	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
	 Practical Giving information to others clearly, at a pace and in a manner that helps them to understand. Displaying helpful behaviour by assisting others in performing tasks in a positive manner, where required and possible. 	HYC/N0103 PC 3, PC 4	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Work effectivel with colleague (Session 3	casual expletives and unpleasant terms	HYC/N0103 KA 5 KB 10 KB 14 SA 3 SB 5 SB 6	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours

	 Reading and understanding manuals, work orders, health and safety instructions, memos, reports etc. Identifying immediate or temporary solutions to resolve delays. Identifying sources of support that can be availed of for problem solving for various kind of problems. 				
	 Consulting with and assist others to maximize effectiveness and efficiency in carrying out tasks Displaying appropriate communication etiquette while working 	HYC/N0103 PC 5, PC 6	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Work effectively with su- pervisors (Session 4)	 Following legislation, standards, policies, and procedures followed in the company relevant to own employment and performance conditions. Knowing the user/ individual on the job needs to know and understand: Knowing various categories of people that one is required to communicate and coordinate with in the organization Being courteous to the Peers , Juniors , Superiors and customers Seeking appropriate assistance from other sources to resolve problems Reporting problems that you cannot resolve to appropriate authority 	HYC/N 0103 KA 1 KB 1, KB 2 SA 4 SB 7, SB 8	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours

	 Practical Displaying active listening skills while interacting with others at work. Using appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism. 	HYC/N0103 PC 7, PC 8	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
Work effectiv with si perviso (Session	in the material and communicate it at the	HYC/N0103 KA 2 KB 5, KB 9 SA 5 SB 9, SB 10	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
	 Practical Demonstrating responsible and disciplined behaviours at the workplace. Demonstrating Time Management Skills. 	HYC/N0103 PC 9, PC 10	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours

		Work effectively with su- pervisors (Session 6)	 Following SHE and OHS guidelines and regulations as per company's norms. Learning how poor communication practices can disturb people, environment and cause problems for the employee, the employer and the customer. Knowing the importance of ethics for professional success. Knowing the importance of discipline for professional success. Referring anomalies to the line manager Identifying any issues affecting the material, equipment or surroundings Escalating issues that cannot be solved as per the troubleshooting/ company manual 	HYC/N0103 KA 6 KB 11, KB 12, KB 13 SB 11, SB 12	Classroom lecture/PPT Session	Computer, Computer Peripherals (Option- al),Black/ white board, marker/ chalk, duster.	8 hours
			 Practical Understanding Expectation Management Demonstrating Commitment to work, adhering to SOPs, Honesty etc. 	HYC/N0103 PC 11, PC 12	Practical Sessions/ Video Session	Laptop, projector, sound system, Internet connection	8 hours
		Session 1 Develop- ing Soft skills	 Learning personal Grooming Learning personality development 		Classroom Lecture/PPT Practical demonstra- tion	White board, pen, laptop, projector	
4	Soft Skills	Session 2 Develop- ing Soft skills	 Learning Interview handling Working in team 	Bridge Module	Classroom Lecture/PPT Practical demonstra- tion	White board, pen, laptop, projector	6 hours
		Session 3 Develop- ing Soft skills	 Learning customer Handling Learning time management 		Classroom Lecture/PPT Practical demonstra- tion	White board, pen, laptop, projector	

F	Communi-	Session 1 Implemen- tation of commu- nication skills	 Reading, Writing and Oral communication Learning courteous behaviour 	Bridge Module	Classroom Lecture/PPT Practical demonstra- tion	White board, pen, laptop, projector	6 hours
5	cation Skills	Session 2 Implemen- tation of commu- nication skills	 Knowing problem solving techniques Learning positive Body language 		Classroom Lecture/PPT Practical demonstra- tion	White board, pen, laptop, projector	
Total Duration						360 Hours	