



Model Curriculum

QP Name: PwD Assistive Aids Repair Technician

QP Code: PWD/Q0301

QP Version: 1.0

NSQF Level: 3

Model Curriculum Version: 1.0

Skill Council for Person with Disability | Address: 501-City Centre, 12/5 Dwarka - New Delhi – 110075

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Training Parameters

Sector	Persons with Disability
Sub-Sector	Service & Repair
Occupation	Assistive Aids Service and Repair
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7234
Minimum Educational Qualification and Experience	12 th standard pass/ I.T.I. with 2 years' experience in Electrical, Electronic, or Mechanical Sector
Pre-Requisite License or Training	Valid Disability certificate having mention of Minimum 40% disability of Divyangjan, issued by the Competent Medical Board / District Authority
Minimum Job Entry Age	18 years
Last Reviewed On	22/11/2021
Next Review Date	
NSQC Approval Date	
QP Version	1.0
Model Curriculum Creation Date	21-07-2021
Model Curriculum Valid Up to Date	21-07-2024
Model Curriculum Version	1.0
Minimum Duration of the Course	529 Hours, 0 Minutes
Maximum Duration of the Course	552 Hours, 0 Minutes

Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills to;

- explain the basics of Electricity
- carry out service and repair of various house wirings
- carry out maintenance & Repair of house hold gadgets
- carry out assembly of various assistive aids such as HPT, folding wheelchair, battery-operated motorized tricycle/ wheelchair, Hearing aids (Digital)
- carry out service and repair of various assistive aids like HPT, folding wheelchair, battery-operated motorized tricycle/ wheelchair, Hearing aids (Digital)
- plan and organize work to meet the desired outcomes
- work effectively with others
- apply health, hygiene and safety practices
- apply resourcefulness and competency to set up an entrepreneurial venture
- work effectively with others
- apply health, hygiene and safety practices
- apply resourcefulness and competency to set up an entrepreneurial venture

Compulsory Modules

The table lists the modules and their duration and mode of delivery.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Bridge module – Basics of Electricity	10:00	04:00			14:00
Module: Basics of Electricity	10:00	04:00			14:00
Bridge Module- Types of House wiring and fault repair in house wiring	18:00	16:00			34:00
Carry out house wiring and fault repair	18:00	16:00			34:00

Bridge Module- Mains, distribution, controls circuits and protection in house	34:00	28:00			62:00
Mains, distribution, controls circuits and protection in house	34:00	28:00			62:00
Bridge Module- Maintenance & Repair of house hold gadgets	50:00	102:00			152:00
Repair and maintain household gadgets	50:00	102:00			152:00
NOS code-PWD/ N0301 NOS name – Assemble, repair and maintain HPT NOS Version No. 1 NSQF Level-4	10:00	35:00	20:00	00:00	65:00
Assemble, repair and maintain HPT	10:00	35:00	20:00	00:00	65:00
NOS code: PWD/N0302 Assemble, repair and maintain a folding wheelchair NOS Version No. 1 NSQF Level-4	10:00	35:00	20:00	00:00	65:00
Assemble, repair and maintain a folding wheelchair	10:00	35:00	20:00	00:00	65:00
NOS code- PWD/N0303 Assemble, repair and maintain battery-operated motorized tricycle/motorized wheelchair NOS Version No. 1 NSQF Level-4	10:00	40:00	25:00	00:00	75:00
Assemble, repair and maintain battery-operated motorized tricycle/motorized wheelchair	10:00	40:00	25:00	00:00	75:00
NOS code- PWD/N0304 Repair and maintain Hearing aids (Digital) NOS Version No. 1 NSQF Level-4	10:00	20:00	15:00	00:00	45:00
Repair and maintain Hearing aids (Digital)	10:00	20:00	15:00	00:00	45:00

NOS code: PWD/N9902 NOS name: Communicate effectively with others NOS Version No. 1 NSQF Level-3	03:00	04:00	01:00	00:00	08:00
Communicate effectively with Others	03:00	04:00	01:00	00:00	8:00
NOS code-PWD/N9901 NOS name– Follow Health, Safety, and Hygiene Practices NOS Version No. 1 NSQF Level-3	04:00	04:00	01:00	00:00	09:00
Follow health, safety, and Hygiene Practices	04:00	04:00	01:00	00:00	09:00
Total Duration	159	288	82	00	529

Optional Module

Option 1: Self-employment & entrepreneurship

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
MEP/N9996: Self Employment and Entrepreneurship skills	15:00	08:00	00:00	00:00	23:00
Self-Employment and Entrepreneurship skills	15:00	8:00	00:00	00:00	23:00
Total Duration	15:00	8:00	00:00	00:00	23:00

Module 1: Basics of Electricity

Mapped to: Bridge Module

Terminal Outcomes:

- Discuss basic fundamentals of Electricals.

Duration: 10:00	Duration: 4:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Understand basic fundamentals of Electricals ● Explaining the basic key concepts of Voltage, Current, Capacitance, Resistance, KVA, KWh. ● Understand Circuit connections, voltage and current relationship in star & delta configuration ● Understand 3 phase and 1 phase supply ● Familiarity with Energy parameters 	<ul style="list-style-type: none"> ● Demonstrate various circuit connections ● Perform electrical circuit calculations using Ohms law. ● Demonstrate the application of Kirschhoffs first and second laws.
Classroom Aids:	
white board, marker, duster, projector, laptop, flip chart, speaker system	
Tools, Equipment and Other Requirements	
Voltmeter, Ammeter, Wattmeter, basic components, Energy Meter (single phase and three phase) etc.	

Module 2: Types of House wiring and fault repair in house wiring

Mapped to: PSS/N6001, v1.0

Terminal Outcomes:

- Discuss various wiring and faults.
- Carry out various types of house wiring and repair faults.

Duration: 18:00	Duration: 16:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Understand rating and current carrying capacity of wires, cables, fuse, switches, sockets, MCBs, ELCBs and other electrical accessories. • Lay conduit pipe concealed and open wiring, batten, casingcapping and temporary cleat wiring • Ensure correct requirement of wires, cables, fuse, switches and other electrical accessories for optimal expenditure • Ensure wiring and points selected in wiring are according to load growth in future • Understand use of under-voltage protective devices, choice of setting of protective devices, labelling of protective devices, switches and terminals • Understand insulation resistance of all live conductors to earth, insulation resistance between live conductors • Ensure selection of equipment appropriate to external influences, access to switchgear and equipment, presence of warning signs and danger notices. • Ensure open circuit due to overheated switches, socket and wires in control board due to loose contact and overload 	<ul style="list-style-type: none"> • Develop circuit and wiring diagram and electrical signage, code specifications to plan wiring layouts, consumption points accurately, as may be required. • Use various types of tools, their functions and application for carrying out work. • Implement system in the most economical way. • Implement methods of protection against electric shock. • Use updated technology products and take their ageing into consideration. • Inspect fault locating points e.g. fuse blown, MCB, RCD trip or short circuit location in wiring circuit. • Check polarity to ensure all switches are connected in phase conductors • Check equal distribution of load on three phase wiring in large residential and commercial units. • Check the color coding, connection and identification of conductors, cables and wires. • Check routing of cables, proper selection of conductors, wires and connectors and connection of single pole devices.
Classroom Aids	
Training kit (trainer guide, presentations etc.), white board, marker, duster, projector, laptop, flip chart, speaker system.	
Tools, Equipment and Other Requirements	
Drill Machine, Hammer, Chisel	

Module 3: Mains, distribution, controls circuits and protection in house

Mapped to: PSS/6002, v1.0

Terminal Outcomes:

- Install controlling and protection devices for different circuits.
- Carry out Joining and connecting wire to fixtures and components to form circuits.

Duration: 34:00	Duration: 28:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Understand standard location of service line connection. • Understand layout of main switch, circuit breakers require at main board. • Understand types of conduit, batten, underground and open wiring. • Read plan Ensure around obstructions like electrical wiring, gas fittings etc. • Prepare extended line for additional points with bearing capacity of existing system or augment/replace existing lines to withhold the additional load. • Ensure proper working and functioning of all protective devices that are necessary to save lives of human, livestock, animals through earthing diagrams (TT). • Ensure fuse, switch or circuit breaker is not placed in an earthed neutral conductor and are wired only in the phase conductor only. • Ensure all connections are made properly, tightened and color coding • Ensure that the correct type, size and current-carrying capacity of cables is chosen to bear the load. • Ensure that all accessible points which may be switched on/off must be easily approached by the users and made as per CEA guidelines standards. • Understand types of earthing plate and pipe earthing lay out location. • Understand importance of earth connection with household gadgets and equipments. • Understand procedure of earth connection with appliance, sockets 	<ul style="list-style-type: none"> • Install controlling and protection devices for different circuits being used for lighting and power loads at each floor or portion. • Locate and mark the position of conduit pipe Ensures, connections into the structures with proper equipment like measuring tape, hammer, saw, drill machines etc. • Cut openings in structures to accommodate conduit pipes or pipe fittings, using hand or power tools. • Lay conduit pipe with clamps. • Install brackets and hangers to support electrical equipment. • Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as tube lights, lamps, chandeliers, regulators switches, relays and circuit breaker panels. • Lay and pull wires through conduits and through holes in walls, ceiling, lanterns and floors. • Join and connect wire to fixtures and components to form circuits. • Install the protective device i.e. ratings as per the load. • Make connections and operate instruments to check the healthiness of house wiring in terms of leakage insulation resistance. • Operate instruments to check the continuity, open circuit, short circuit and load flow. • Operate instruments to check the earth resistance.

<p>main board and distribution board.</p> <ul style="list-style-type: none"> • Use of devices available in market such as Timers, impulse relay, programmable switch, twilight switch, movement detector. • Ensure and assembling of various type, design and capacity fans, tube lights, LED Lights, bulbs, lamps, doorbells, switches, geysers, inverters, exhaust fan, safety alarms, decorative lights and chandeliers. • Ensure of various size and capacity water pump motors according to the load with their control circuit of water level in tank. 	
<p>Classroom Aids</p>	
<p>Training kit (Trainer guide, Presentations etc.), White board, Marker, duster, projector, laptop, flip chart, speaker system</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>Tools and teaching aids for PwD wheel chairs, Live/Closed Captions, Screen Reader, Assistive Listening devices, Speech to text software, Talk back and voice over, Large Font handouts, Magnifier other common assistive and supportive aids for specific Disabilities.</p>	

Module 4: Maintenance & Repair of house hold gadgets

Mapped to: PSS/N6003, v1.0

Terminal Outcomes:

- Perform check to verify the need for repair of gadgets.
- Carry out maintenance and adjustment of Household gadgets.

Duration: 50:00	Duration: 102:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • specifications of the electrical equipment and gadgets. • Understand the capacity in kW, load in Amperes and power consumption in kWh for each appliance. • Check connection of equipment and status of tripping device. • Ensure presence of appropriate devices for isolating and switching. • Operate principle of single phase motor, various types of motors like self start, capacitor start, capacitor run, universal motors and their applications and functions of condenser. • Understand how a rotating field is developed in single phase motor. • Understand the significance of the number of poles in motor winding for rpm, speed and connections for change of direction. • Check insulation resistance of motor winding with live conductors to earth and between live conductors. • Various parts of motors, pumps and their functions like ball bearings, cooling fans, fins and bushes. • Various types of winding wires, their gauge and insulating materials for motor winding. • Understand material used to make various types of heating elements like nicrome, kanthal, eureka etc., various shape, size and capacity of heating elements according to applications and usages. • Understand types of thermal insulations used in electrical gadgets like mica, asbestos, ceramics, glass 	<ul style="list-style-type: none"> • Check connection of equipment and status of tripping device. • Operate principle of single phase motor, various types of motors like self start, capacitor start, capacitor run, universal motors and their applications and functions of condenser. • Check insulation resistance of motor winding with live conductors to earth and between live conductors. • Various parts of motors, pumps and their functions like ball bearings, cooling fans, fins and bushes. • Various types of winding wires, their gauge and insulating materials for motor winding.

<p>wool etc.</p> <ul style="list-style-type: none"> • Understand about timers (motorized, mechanical), thermal relays, bimetallic strips. • Ensure preventive maintenance, regular cleaning, oiling, greasing of household gadgets like fans, desert cooler, water pump motors etc. • Ensure replacement of damaged switches, MCB, fan- capacitor, regulator, lighting points i.e. holder, choke, starters, water coolers and their pump & motor. • Ensure regular maintenance of - iron, toaster, induction-plate & cooker. • Ensure regular maintenance of doorbells, FL tube starters & chokes. • Preventative maintenance of batteries. • Ensure soldering of winding wires, cables and their joints in electrical gadgets. • Verify system grounding and measure insulation resistance. • Clean solar panels for removal of dust, bird droppings, pollen, leaves, branches etc. as per maintenance schedule. • Ensure all electrical connections as per specification, measure and record DC voltages and currents and identify the faults in the system. • Check for working condition of fuses, circuit breakers and all cables for loose connections. • Take adequate precautionary measures while handling electrical system adhering to relevant health and safety standards. • Understand that if reason of error is not clear, do not try to fix anything and call OEM repair and maintenance team 	<ul style="list-style-type: none"> • Understand about timers (motorized, mechanical), thermal relays, bimetallic strips. • Ensure preventive maintenance, regular cleaning, oiling, greasing of household gadgets like fans, desert cooler, water pump motors etc. • Ensure replacement of damaged switches, MCB, fan- capacitor, regulator, lighting points i.e. holder, choke, starters, water coolers and their pump & motor. • Ensure regular maintenance of - iron, toaster, induction-plate & cooker. • Ensure regular maintenance of doorbells, FL tube starters & chokes. • Preventative maintenance of batteries. • Ensure soldering of winding wires, cables and their joints in electrical gadgets. • Verify system grounding and measure insulation resistance. • Clean solar panels for removal of dust, bird droppings, pollen, leaves, branches etc. as per maintenance schedule. • Ensure all electrical connections as per specification, measure and record DC voltages and currents and identify the faults in the system. • Check for working condition of fuses, circuit breakers and all cables for loose connections. • Take adequate precautionary measures while handling electrical system adhering to relevant health and safety standards. • Understand that if reason of error is not clear, do not try to fix anything and call OEM repair and maintenance team
<p>Classroom Aids</p>	
<p>Training kit (Trainer guide, Presentations etc.), White board, Marker, duster, projector, laptop, flip chart, speaker system</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>Plier, Nose Plier, Phase tester, Wire cutter, screw, driver set, Earth tester.</p>	

Module 5: Assemble, repair and maintain HPT

Mapped to: PWD/N0301, v1.0

Terminal Outcomes:

- Assemble a Hand Propelled Tricycle (HPT).
- Repair and service of HPT.

Duration: 10:00	Duration: 35:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● List the sources of material required in the assembly of HPT. ● Describe the various parts of HPT and their function. ● Describe the common faults that occur in HPT and the tools required to repair. ● List the tools and equipment used to assemble/ service HPT. ● Explain the steps of the standard operating procedures for assembly and repair of HPT. ● Explain the safety measures prescribed for handling various equipment and components of HPT. ● Describe the steps to test and repair HPT. 	<ul style="list-style-type: none"> ● Prepare a list of various HPT components, tools & equipment required for assembly and repair. ● Demonstrate the steps of assembling various parts of HPT (pedal crank, brake assembly) in line with manufacturer’s guidelines). ● Demonstrate the working of HPT. ● Perform a check of the various parts of HPT to identify problems. ● Demonstrate the steps to accurately complete the process of repair of HPT. ● Show how to re-align panels and components of HPT. ● Perform the process for adjustment of the braking system. ● Perform the steps required to align the wheels. ● Show the steps for inflation of tyres and lubrication of operating mechanisms. ● Conduct a test drive to ensure accurate functioning of the repaired HPT.
Classroom Aids:	
white board, marker, duster, projector, laptop, flip chart, speaker system	
Tools, Equipment and Other Requirements	
Tools and teaching aids for PwD wheel chairs, Live/Closed Captions, Screen Reader, Assistive Listening devices, Speech to text software, Talk back and voice over, Large Font handouts, Magnifier other common assistive and supportive aids for specific Disabilities.	

Module 6: Assemble, repair and maintain a folding wheelchair

Mapped to: PWD/N0302, v1.0

Terminal Outcomes:

- Assemble a folding wheelchair.
- Repair and service a folding wheelchair.

Duration: 10:00	Duration: 35:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Describe the various parts of a folding wheelchair and their function. ● Select the standard gradings of various components and hardware and fittings used in the assembly of a folding wheelchair. ● List the tools and equipment used to assemble/service a folding wheel chair. ● Explain the procedure of repair and maintenance of a folding wheel chair. ● Describe the steps for quality check to ensure the smooth functioning of the folding wheelchair. 	<ul style="list-style-type: none"> ● Select the various parts of a folding wheel chair. ● Demonstrate the steps of fitting a strip folding and its fasteners on a folding wheelchair. ● Show the steps to assemble cloth guard with the side frame using self-tapping screw. ● Demonstrate how to fix both side frames assembly with strip holding. ● Demonstrate how to fit a rim assembly, tyre mounting, axle fitting with the rear wheel, using appropriate fasteners as per specifications. ● Show how to fix a castor wheel with stem, fork, and plate bearings. ● Demonstrate the assembly of seat and back rest with appropriate self-tapping screw. ● Show the steps to assemble foot rest with rubber pad in the folding wheelchair. ● Perform a check of the various parts of a folding wheelchair to identify faults. ● Perform repair and service of folding wheelchair. ● Conduct a test drive to ensure accurate functioning of the folding wheelchair.
Classroom Aids	
Training kit (trainer guide, presentations etc.), white board, marker, duster, projector, laptop, flip chart, speaker system.	
Tools, Equipment and Other Requirements	

Tools and teaching aids for PwD wheel chairs, Live/Closed Captions, Screen Reader, Assistive Listening devices, Speech to text software, Talk back and voice over, Large Font handouts, Magnifier other common assistive and supportive aids for specific Disabilities.

Module 7: Assemble, repair and maintain battery-operated motorized tricycle/ wheelchair

Mapped to: PWD/N0303, v1.0

Terminal Outcomes:

- Assemble a battery-operated motorized tricycle/ wheelchair.
- Carry out service and repair on a battery-operated motorized tricycle/wheelchair.

Duration: 10:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Describe the various parts of a battery-operated motorized tricycle/wheelchair and their function. ● List the tools and equipment required for repair of the motorized wheelchair. ● Explain the steps of the standard operating procedures for assembly and repair of a battery-operated motorized tricycle/wheelchair. ● Explain the function and the operating procedure of a digital multi-meter. ● State how to use a SMPS battery charger. ● Describe the steps for repair and maintenance of a battery-operated motorized tricycle/ wheelchair. ● State the common faults in a battery-operated motorized tricycle/ wheelchair and discuss solutions. 	<ul style="list-style-type: none"> ● Perform the steps to assemble the various parts of a battery-operated motorized tricycle/wheelchair. ● Demonstrate how to use a digital multi-meter to check the battery of a battery-operated motorized tricycle/wheelchair. ● Show the steps for acceleration and speed check on a battery-operated motorized tricycle/ wheelchair. ● Perform a check on the functioning of horn, light, and indicator. ● Show the steps to replace the battery, if required. ● Select the appropriate tools and equipment required for repair and maintenance of a battery-operated motorized tricycle/wheelchair. ● Perform a check to identify any loose/wrong wiring or physical damage in a battery-operated motorized tricycle/ wheelchair. ● Show the steps for repair and maintenance of a battery-operated motorized tricycle/wheelchair as per industry standards. ● Conduct a test drive to ensure accurate functioning of a battery-operated motorized tricycle/ wheelchair.
Classroom Aids	

Training kit (Trainer guide, Presentations etc.), White board, Marker, duster, projector, laptop, flip chart, speaker system

Tools, Equipment and Other Requirements

Tools and teaching aids for PwD wheel chairs, Live/Closed Captions, Screen Reader, Assistive Listening devices, Speech to text software, Talk back and voice over, Large Font handouts, Magnifier other common assistive and supportive aids for specific Disabilities.

Module 8: Repair and maintain Hearing aids (Digital)

Mapped to: PWD/N0304, v1.0

Terminal Outcomes:

- Perform check to verify the need for repair of Hearing aids (Digital).
- Carry out maintenance and adjustment of hearing aids (Digital).

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Describe the various types of hearing aids and their functions. ● Describe the various parts of a hearing aid (Digital) and their functions. ● Explain the steps for maintenance and repair of hearing aids (Digital). ● Describe how to use basic electronic components to service and repair hearing aids (Digital). ● State the common faults in a hearing aid (Digital) and discuss solutions. 	<ul style="list-style-type: none"> ● Show how to assemble electronic circuits using basic electrical tools (like multi-meters, soldering equipment etc.). ● Select the appropriate method and tools to repair a hearing aid (Digital). ● Demonstrate the steps to repair common faults in a hearing aid (Digital). (check if battery is on or volume is set too low). ● Perform the steps for maintenance of the hearing aid (such as cleaning the hearing aid, replacing the battery etc.). ● Show the steps to reassemble a hearing aid (Digital) after repair. ● Conduct a test to ensure the proper functioning of the hearing aid after repair.
Classroom Aids	
Training kit (Trainer guide, Presentations etc.), White board, Marker, duster, projector, laptop, flip chart, speaker system	
Tools, Equipment and Other Requirements	
Tools and teaching aids for PwD wheel chairs, Live/Closed Captions, Screen Reader, Assistive Listening devices, Speech to text software, Talk back and voice over, Large Font handouts, Magnifier other common assistive and supportive aids for specific Disabilities.	

Module 9: Communicate effectively with others

Mapped to: PWD/N9902, v1.0

Terminal Outcomes:

- Demonstrate acceptance towards a diverse population.

Duration: 03:00	Duration: 04:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain People First Language (PFL). • Explain the significance of disability sensitization. • Discuss the challenges faced by a person with disability at the workplace and suggest ways to assist them. • Explain bias-free communication. • Explain gender concepts (gender as a social construct, gender sensitivity, gender equality etc.), issues and applicable legislations. • Discuss workplace harassment, its indicators and the process of reporting it. • Discuss Prevention of Sexual Harassment Act, 2013. • Differentiate between ethical and unethical behaviour and practices. • Discuss the benefits of understanding the socio-economic status, disability, challenges and aspirations of the learners. • Explain the protocols to be followed while dealing with persons with disability, who are at increased risk of sexual abuse as per guidelines. 	<ul style="list-style-type: none"> • Compile a list of words and phrases indicating the appropriate use of people-first language. • Demonstrate bias-free communication while interacting with differently abled students in a classroom environment. • Design sample teaching material/activities to inculcate skills such as peer bonding, confidence, etc. • Demonstrate how to use smart phone features such as messaging, clock, calculator, camers, etc. • Demonstrate how to connect to internet, Bluetooth etc. and create an email ID. • Demonstrate the use of various social media platform and safety and security measures related to it.
Classroom Aids:	
Training kit (Trainer guide, Presentations etc.), White board, Marker, duster, projector, laptop, flip chart, speaker system.	
Tools, Equipment and Other Requirements	
N/A	

Module 10: Follow health, safety, and Hygiene practices

Mapped to: PWD/N9901, v1.0

Terminal Outcomes:

- Discuss health, hygiene and safety practices.

Duration: 04:00	Duration: 04:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss the health, hygiene and safety requirements for PwD in their surrounding environment as per guidelines. • Discuss the various emergencies that may happen such as fire, accident, fall etc. • Describe alternative ways and aids (audio alarms for the blind and visual alarms, simple diagrams or pictures, wheelchair, etc.) to ensure the safety of PwD. • Discuss the process and significance of reporting accidents and hazards. • Explain the importance of maintaining a clean and tidy workplace. • Discuss the significance of maintaining personal hygiene. • Discuss the significance of following health and hygiene practices as per guidelines. 	<ul style="list-style-type: none"> • Prepare a summary of health and safety requirements specific to PwD. • Demonstrate safety drills for different emergency situations. • Demonstrate ways to administer basic first aid in different situations to PwD and the correct use of PPE.
Classroom Aids:	
Training kit (Trainer guide, Presentations etc.), White board, Marker, duster, projector, laptop, flip chart, speaker system	
Tools, Equipment and Other Requirements	
First aid box (sterile dressings, plasters, disposable sterile gloves, scissors, antiseptic wipes, thermometer), etc., cleanliness and hygiene related material like Soaps, Hand Wash, sanitizers etc.	

Module 11: Self Employment and Entrepreneurship skills

Mapped to: MEP/N9996 V.1

Terminal Outcomes:

- Develop and assess ideas and opportunities for potential viable business.
- Apply resourcefulness and competency to set up an entrepreneurial venture.

Duration: 15:00	Duration: 08:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Define the concept of entrepreneurship. • List the roles and responsibilities of an entrepreneur. • State the advantages of entrepreneurship and self-employment. • Describe the types of entrepreneurship and enterprises. • Identify key entrepreneurial skills and attitudes. • Differentiate between self-employment and entrepreneurship. • Identify relevant opportunities for setting up a business. • Explain the concept of competition analysis. • Select the most suitable business opportunity by applying the principles of competition analysis. • Describe the 4Ps of Marketing- Product, Price, Place and Promotion. • Differentiate between fixed and variable costs. • Explain the basic process of accounting. • Recognize basic financial documents such as P&L statement, Balance Sheet, etc. • Explain the concept of working capital. • Define customer base for the selected business opportunity. • Describe the principles governing Customer Relationship Management for the selected customer base. • Describe the elements of a good business plan. • Evaluate one's business plan to assess its viability. • Identify business risks. 	<ul style="list-style-type: none"> • Show the steps for identifying opportunities for potential business at local level. • Demonstrate ways to apply the principles of competition analysis for assessing opportunities for potential business. • Apply the 4Ps of Marketing to the selected business opportunity. • Create a resource plan such as human resources, raw material, machinery, equipment, tools, etc. for the selected business opportunity. • Identify the key value proposition for the selected customer base. • Formulate target customer experience for the selected customer base. • Create a basic business plan by using the 4Ps of Marketing, resource plan, cost and accounting principles, and Principles of Customer Relationship Management. • Apply risk mitigation strategies to minimize risks in one's business plan. • Analyse success and failure stories of other entrepreneurs to imbibe lessons for one's self development and create a mitigation plan. • Design a checklist to Rate one's entrepreneurial skills after analysing one's skills that are relevant for entrepreneurship. • Create a chart on avenues for the development of entrepreneurial skills and knowledge.

<ul style="list-style-type: none"> • Describe the steps needed to mitigate business risks. • Identify sources of funding such as formal schemes, loans, personal borrowings, etc. for the selected business opportunity using research. • Identify the regulatory, statutory and other rules and guidelines that apply to the selected business opportunity. • Compare the key skills involved in the successes and failures of these entrepreneurs. • Identify the skill gaps in the failure stories of other entrepreneurs. 	
<p>Classroom Aids:</p>	
<p>white board, marker, duster, projector, laptop, flip chart, speaker system</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>Tools and teaching aids for PwD wheel chairs, Live/Closed Captions, Screen Reader, Assistive Listening devices, Speech to text software, Talk back and voice over, Large Font handouts, Magnifier other common assistive and supportive aids for specific Disabilities.</p>	

On-the-Job Training

Mandatory Duration: 82:00	Recommended Duration: 00:00
Module Name: On-the-Job Training	
Location: On Site	
Terminal Outcomes	
<ul style="list-style-type: none"> ● Assemble HPT. ● Carry out service and repair of HPT. ● Test the adjustment/alignment for the smooth functioning of the various components of HPT as well as the complete unit. ● Assemble a folding wheelchair. ● Carry out service and repair of the folding wheelchair. ● Test the adjustment/alignment for the smooth functioning of the folding wheelchair. ● Repair common issues that may arise in a battery-operated motorized tricycle/ wheelchair. ● Carry out service and repair of the battery-operated motorized tricycle/ wheelchair. ● Assemble a battery-operated motorized tricycle/wheelchair . ● Carry out service and repair of a battery-operated motorized tricycle/wheelchair. ● Test the adjustment/alignment for the smooth functioning of a battery-operated motorized tricycle/wheelchair. ● Assemble electronic circuits and systems using basic electrical tools (like multi-meters, soldering equipment etc.). ● Repair common issues in hearing aids (for Example: check if the battery is on or volume is set too low). ● Perform maintenance of the hearing aid (such as cleaning the hearing aid, replace the battery or tube). ● Carry out service and repair of the hearing aids (Digital) using appropriate method or tool. ● Reassemble a hearing aid after repair. ● Raise requests to seek assistance for any defects that may be outside the scope of personal capabilities. ● Segregate and dispose of the waste as per the hygiene standards. ● Demonstrate strong communication skills and workplace etiquette. ● Demonstrate sensitization towards different age groups, gender, and persons with disabilities. ● Maintain personal hygiene and grooming at the workplace. ● Identify hazards at the workplace and report it to the supervisor. ● Incorporate gender and age-sensitive practices. ● Maintain confidentiality of the organization’s information and guests’ privacy. ● Maintain health, hygiene, and safety at the workplace. 	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
B. Tech	Electrical, Electronic, Mechanical, Instrumentation	minimum 2 years				
Bachelor	Audiology and Speech Language Pathology	N/A				
Bachelor	Prosthetics & Orthotics	N/A				

Trainer Certification	
Domain Certification	Platform Certification
Recommended that the Inclusive Trainer should be certified by SCPwD as per SCPwD guidelines in Disability Specific Top Up Training / QP of Trainer - PwD "PwD/Q0101". Minimum Accepted Score is 80%.	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q2601" Minimum accepted score is 80%.

Assessor Requirements

Assessor Prerequisites							
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks	
		Years	Specialization	Years	Specialization		
B. Tech Or	Electrical, Electronic, Mechanical, Instrumentation	minimum 4 years	Preferred in the field of Disability	NA	NA		
Diploma	Electrical, Electronic, Mechanical, Instrumentation	minimum 4 years					
Bachelor of Audiology and Speech Language Pathology & Bachelor in Prosthetics & Orthotics		4 years					

Assessor Certification	
Domain Certification	Platform Certification
Recommended that the Inclusive Assessor should be certified by SCPwD as per SCPwD guidelines in Disability Specific Top Up Training / QP of Assessor -PwD "PwD/Q0201". Minimum accepted score is 80% .	Recommended that the Assessor is certified for the Job Role: "Assessor", mapped to the Qualification Pack: "MEP/Q2701" Minimum accepted score is 80%

Assessment Strategy

1. Assessment System Overview:

- Batches are assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email by SCPwD.
- Assessment agency deploys the ToA certified Assessor for conducting assessment.
- SSC monitors the assessment process and records SSC approve the final result. SSC shares the result with training providers.

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP.
- Check the duration of the training.
- Check the assessment start and end time.
- If the batch size is more than 30, then there should be 2 assessors.
- Check that the allotted time to the candidates to complete theory & practical assessment is correct.
- Check the mode of assessment—online (TAB/Computer) or offline (OMR/PP).
- Confirm the number of tablets on-ground are correct to execute the assessment smoothly.
- Check the availability of the lab equipment for the particular job role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the subject matter experts from assessment agencies and approved by SCPwD.
- Questions are mapped with NOS and PC.
- Question papers are prepared considering that level 1 to 3 is for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management level.
- Assessor must be ToA certified and master trainer should be certified on SIP.
- Assessment agency must follow the assessment guidelines to conduct the assessment developed.
- Attendance sheet checking are required.

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location.
- Centre photographs with signboards and scheme specific branding.
- Biometric or manual attendance sheet (stamped by master trainer) of the trainees during the training period.
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos.

5. Method of verification or validation:

- Surprise visit to the assessment location.
- Random audit of the batch or any candidate.

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored.
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from cloud storage and also stored in hard drives.

Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
HPT	Hand Propelled Tricycle