

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

SUPPLEMENTAL TO ESSENTIAL - will optimize implementation

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
				Quantity	ITEM/TECHNICAL SPECIFICATION		Quantity for 20	ITEM/TECHNICAL SPECIFICATION
HOME ECONOMICS								
HAIR DRESSING NC II								
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS				
				BRUSH				
				5	pcs.	Applicator brush		
Student/Trainee Working Space	1 x 1	1	25	5	pcs.	Barber brush		
Lecture/Demo Room	8 x 5	40	40	5	pcs.	Hair brush		
Learning Resource Center	3 x 5	15	15	5	pcs.	Paddle brush		
Facilities/Equipment/ Circulation Area	6 x 4	24	24	5	pcs.	Roller brush		
Total			104	5	pcs.	Skeleton brush		
				5	pcs.	Tinting brush		
				5	pcs.	Tinting brush with comb*		
				5	pcs.	Silicon brush		
				5	pcs.	Curling rod		
				CAP				
				3	pcs.	Frosting Cap w/ Hook		
				3	pcs.	Shower cap		
				CLIPS				
				12	pcs.	Hair clips, 1 doz.		
				13	pcs.	Single prong clip (optional)		
				14	pcs.	Double prong clip (optional)		
				COMB				
				3	pcs.	All purpose comb		
				3	pcs.	Bath comb		
				3	pcs.	Apro comb		
				3	pcs.	Haircutting comb		
				3	pcs.	Large tooth comb		
				3	pcs.	Tail comb		
				3	pcs.	Teasing comb		
				3	pcs.	Wide toothed comb		
				GLOVES				
				1	box	Disposable gloves, box		
				3	pcs.	Rubber gloves		
				MIRROR				
				9	pcs.	Modular mirror (movable)		
				10	pcs.	Hand mirror		
				PIN				
				6	pcs.	Clamps		
				1	box	Hairpin, box		
				12	pcs.	Duck bill clamp		
				1	box	Invisible pins		

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				TOOLS, EQUIPMENT & MATERIALS				Quantity for 20	ITEM/TECHNICAL SPECIFICATION
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION				
				60	pcs.	Pin curl clips, 5 doz.			
				60	pcs.	Roller pin, pcs., 5 doz			
				PROTECTIVE CLOTHING/ ACCESSORIES					
				12	pcs.	Apron			
				12	pcs.	Cape			
				12	pcs.	Flannel headband			
				12	pcs.	Head band			
				12	pcs.	Invisible hairnet			
				12	pcs.	Neck strip			
				12	pcs.	Plastic cape			
				12	pcs.	Smock gown			
				ROLLERS					
				5	doz	Cylinder shaped rollers (long and short)			
				5	doz	Jumbo rollers			
				5	doz	Large size rollers			
				5	doz	Medium size rollers			
				5	doz	Small size hair rollers wire (optional)			
				SCISSORS					
				5	pcs.	Cutting scissor			
				5	pcs.	Thinning scissor			
				5	pcs.	Clippers			
				5	pcs.	Drip pan			
				5	pcs.	Measuring cup			
				5	pcs.	Mixing bowls			
				5	pcs.	Scoop			
				5	pcs.	Razors			
				5	pcs.	Spatula			
				5	pcs.	Squeezer			
				5	pcs.	Spray gun			
				MAKE - UP					
				5	pcs.	Eyelash curler			
				5	pcs.	Eye liner brush			
				5	pcs.	Eyebrow pencil Sharpener			
				5	pcs.	Large blusher brush			
				5	pcs.	Powder brush			
				5	pcs.	Fan brush			
				5	pcs.	Lip brush			
				5	pcs.	Eyebrow brush (Large and small)			
				5	pcs.	Eye shadow brush			
				5	pcs.	Eye brow scissor			
				5	pcs.	Angle brush			
				5	pcs.	Eye brow blade			
				5	pcs.	Eyebrow Tweezer			

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				TOOLS, EQUIPMENT & MATERIALS				Quantity for 20	ITEM/TECHNICAL SPECIFICATION
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION				
				5	pcs.	Trolley/supply tray			
				EQUIPMENT					
				6	units	Blower/Hair Dryer			
				6	pcs.	Crimpers			
				6	units	Curling Iron			
				3	units	Electric Curlers (optional)			
				6	units	Hydraulic chair			
				6	units	Shampoo chairs			
				3	units	High chair			
				6	units	Stool			
				25	pcs.	Arm Chair			
				2	sets	Shampoo bowl set			
				1	unit	Heating cap (optional)			
				1	unit	Infrared			
				1	unit	Iron Plate			
				1	unit	Hair steamer			
				1	unit	Sterilizer			
				2	pcs.	Timer			
				SUPPLIES AND MATERIALS					
						Alcohol, 500 ml			
						Aluminum foil			
						Powder, 500 grams			
						Blade			
						Cling Wrap, rol			
						Conditioner, 1 gal			
						Color product form: Cream, Liquid & Powder			
						Towel* (Black and White)			
						For demo – 1 dozen			
						Developer , 6% 20 volumes; 9% 30 volumes; 12% 40 volumes, 500 ml. each			
						Ear pads			
						End paper			
						Bleaching product (powder, cream and liquid)			
						Setting lotion			
						Gauze mask			
						Gel*, 500 ml.			
						Hairpiece			
						Hair polish			
						Hair wax, 500 ml.			
						Paper strip			
						Mousse			
						Perm lotion w/ neutralizer, 500 ml.			
						Plastic applicator			

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Facilities					TOOLS, EQUIPMENT & MATERIALS				
					Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION
						Press spray plastic dispenser bottle			
						Rubber band, box			
						Shampoo, gal			
						Spray net, 500 ml.			
						Tissue paper			
						Tissue roll			
						Wig			
						Hair treatment products			
						TRAINING MATERIALS			
						CATALOG			
					1	Men's Cut Catalog			
					1	Ladies Cut Catalog			
					1	Kid's Cut Catalog			
						Magazines			
						Textbooks/ References			
					1	pc	White board (big)		
					5	pcs	Markers (assorted colors)		
					1	pc	Eraser		
						MAKE - UP			
						Sponge			
						(natural and sea)			
						Cotton buds			
						Powder applicator			
						Assorted color lipstick (palette, stick and pencil)			
						Concealer foundation			
						Liquid			
						Cream			
						Cake			
						Blusher			
						(powder and cake)			
						Eye brow pencil			
						Eye shadow			
						(pencil and cake)			
						Eye liner			
						(pencil, liquid, cake)			
						Lip gloss			
						Mascara			
						Powder			
						Pressed			
						Loose powder			
						Translucent			
						Eyelash glue			
						Glitter gel			

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				Quantity	ITEM/TECHNICAL SPECIFICATION		Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
						Eye gel				
						Stoned glitter				
						Powder glitter				
						Artificial eye lashes				
						Tissue				
						Cotton				
						Alcohol				

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				Facilities		TOOLS, EQUIPMENT & MATERIALS	
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	Quantity	ITEM/TECHNICAL SPECIFICATION		
CAREGIVING NC II							
				TOOLS			
				2 pcs.	Airpot (Hot Water)		
				1 pc.	Skillet		
Demonstration Room				5 sets	Garbage bin (biodegradable and non-biodegradable)		
- Child care		30 sq. m.	30 sq. m.	2 pcs.	Urinal		
- Home Management		60 sq. m.	60 sq. m.	12 pcs.	Basin (small)		
- Elderly Care		30 sq. m.	30 sq. m.	1 pc.	Baby bath tub		
- care for people with special needs		30 sq. m.	30 sq. m.	12 pcs.	Flat sheet		TRAINING MATERIALS/REFERENCES
Academic room		30 sq. m.	30 sq. m.	12 pcs.	Gloves -household		Mother and Care Baby
Study room/Learning Resource Center				1 box	Gloves - surgical		Infant Care Feeding
Clinic				12 pcs.	Face towel/ towelette		Story books e.g. Cinderela, snow white, etc.
Separate restrooms for female and male				12 pcs.	Bath towel/ towelette		Geriatrics A Study of Maturity
Library holdings must not be less than five (5) titles related and for each title at least 3 copies each							Complete Early Childhood
				4 pcs.	Blanket		
				4 pcs.	Comforter		Baby Play
				2 pcs.	Bedpan		Fundamentals of Nursing
				2 pcs.	Bottle brush (cleaning feeding bottles)		Cookbook
				2 pcs.	Burping cloth		Toddler Play
				5 pcs.	Baby clothes		Care of the Adult
				5 pcs.	Baby blanket		First Aid Book
				1 pc.	Carpet 4 ft. x 8 ft.		Cleaning of Different Areas of the house
				1 pc.	Clothes brush		
				1 pc.	Clothes humper		
				1 pc.	Clothes rack		
				2 each	Clothes, linen and fabrics for laundry		
				1 set	China ware		
				1 set	Cooking utensils		
				5 pcs.	Cutting board		
				1 set	Cutlery		
				1 pc.	Electric knife		
				1 pc.	Electric opener		
				10 pcs.	Gown (hospital)		
				1 pc.	Hot water bag		
				1 pc.	Ice cap		
				1 pc.	Kettle		
				1 set	Pots and pan		
				10 pcs.	Pot holder		
				2 pcs.	Apron		
				1 set	Crutches (adjustable)		

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Facilities				TOOLS, EQUIPMENT & MATERIALS						
				Quantity	ITEM/TECHNICAL SPECIFICATION					
					1 set	Grooming kit (hairbrush. comb, nail cutter, nail brush)				
					5 pcs.	Hand towel				
					1 set	Feeding utensils (Child and adult)				
					1 set	Measuring cup				
					1 unit	Medical tray				
					1 set	Mixing bowl				
					4 pcs.	Pail				
					5 pcs.	Peeler				
					1 pc.	Pick up forcep				
					12 pcs.	Pillow case				
					8 pcs.	Pillow				
					1 unit	Portable mixer				
					1 unit	Potato masher				
					2 pcs.	Record book				
					6 pcs.	Rubber sheets				
					1 set	Silver ware				
					10 pcs.	Soap dish				
					1 pc.	Tong (plastic/ rubber)				
				EQUIPMENT						
					1 pc.	Bed Ordinary				
					1 pc.	Bed surgical				
					2 units	Blender / juicer				
					2 pcs.	Bp apparatus, aneroid				
					2 pcs.	Bp apparatus, mercurial				
					1 unit	Coffee maker				
					1 pc.	Crib				
					1 unit	Dish washer w/ drier				
					1 unit	Food processor				
					2 pcs.	Flat iron with ironing board				
					1 unit	Microwave oven - digital				
					1 units	Oven (electric, gas)				
					25 pcs.	Chairs with arm				
					1 unit	Dining set				
					2 pcs.	White board				
					1 unit	OHP/LCD*				
					1 unit	Computer w/ printer				
					1 unit	Refrigerator				
					1 pc.	Sphygmoma-nometer				
					1 pc.	Bottle Sterilizer, electric				
					1 pc.	Stethoscope				
					1 unit	Stove				
					1 unit	Operational telephone unit				

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				Facilities		TOOLS, EQUIPMENT & MATERIALS	
				Quantity	ITEM/TECHNICAL SPECIFICATION		
				10 sets	Thermometer (Oral, rectal, Axilla, Tympanic)		
				1 unit	Bread toaster		
				1 unit	Washing machine – Heavy Duty		
				1 unit	Drier		
				1 pc.	Weighing scale		
				1 pc.	Wheel chair		
				1 unit	Vacuum cleaner – Heavy Duty		
				1 pc.	Commode		
				1 pc.	Cane or walker		
				1 pc.	High chair/ booster seat/ portable seat		
				1 unit	Dressing trolley w/		
					· cotton balls		
					· medicine glass		
					· thermometer		
					· wound dressing set		
				1 set	First aid kit		
				1 each	Dummy (baby and adult) ** - use for bathing		
				1 each	Dummy for CPR (infant, child and adult) **		
					OFFICE EQUIPMENT/ FURNITURE		
				1 unit	Fax machine		
				1 unit	Television		
				1 unit	VHS/CD/DVD Player		
				1 set	Sofa set		
					MATERIALS		
				2 btls.	Alcohol		
				2 packs	All purpose detergent soap		
				2 pcs.	Baby oil		
				10 pcs.	Soap		
				5 pcs.	Feeding bottles w/ cover and nipples		
				4 pcs.	Bib and baby layettes		
				1 gal.	Bleaching solution		
					Coffee, Cream and sugar		
				1 pack/ each			
				1 packs	Cotton buds		
				1 set	Condiments		
				1 gal.	Fabrics softener		
					Food items use for preparing meals		
				1 pack	Diaper (child and adult)		
				1 gal.	Liquid soap (cleaning bottles)		
				1 kilo	Infant formula		

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Facilities				TOOLS, EQUIPMENT & MATERIALS			Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
				Quantity	ITEM/TECHNICAL SPECIFICATION					
				6 packs	Table napkins					
				2 pcS.	Table cloth					
				1 pack	Garbage bags					
				2 sets/ each	Bathing paraphernalia (adult and child)					
				1 set/ each	TOYS					
					Crayons					
					Play Dough					
					Shape sorter					
					Coloring Book					
					Musical Mobile					
					Push & pull toys					
					Toys (assorted), games and accessories					
				TAPES/DISC						
					CPR (Infant, Child and Adult)					
					Artificial Resp. (Infant, Child and Adult)					
					1. Fracture					
					2. Sprained Ankle					
					3. Burns					
					4. Child safety: films about playing and safe					
					5. Multiple Casualty Management					
				TRAINING MATERIALS/REFERENCES						
					Mother and Care Baby					
					Infant Care Feeding					
					Story books e.g. Cinderela, snow white, etc.					
					Geriatrics A Study of Maturity					
					Complete Early Childhood					
					Baby Play					
					Fundamentals of Nursing					
					Cookbook					
					Toddler Play					
					Care of the Adult					
					First Aid Book					
					Cleaning of Different Areas of the house					
TAILORING NC II										
				TOOLS						
				25	pcs	Tape Measure				
				25	pcs	Hip- curve				
Building (permanent)			176.25	25	pcs	Meter stick				
Student/Trainee Working Space	1.5 x 1.5	2.25	56.25	25	pcs	French curve				
Lecture/Demo Room	1.5 x 2	3	78	25	pairs	Scissors (6 ")				
Learning Resource Center	3 x 5	15	15	25	pcs	L- Square				
Facilities/Equipment/ Circulation Area	1.5 x 2	3	27	10	pairs	Pinking Shears				

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				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
				25	pairs	Cutting Shears (8")				
				25	pcs	Ruler with grid (24")				
				25	pcs	Triangle 16" (45° 90°)				
				25	pcs	Seam Ripper				
				25	pcs	Sewing Box				
				5	pcs	Screw Driver Flat (medium size)				
				5	pcs	Screw Driver Flat (small size)				
				5	pcs	Spray Bottle				
				5	Doz.	Hanger				
				25	pcs	Tracing Wheel				

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				Facilities		TOOLS, EQUIPMENT & MATERIALS	
		Quantity	ITEM/TECHNICAL SPECIFICATION				
EQUIPMENT							
		5	units	Single Needle Lockstich machines			
		5	pcs	3 Threads over lock machine			
		1	units	Bar Tack Machine			
		1	unit	Feed of the Arm machine			
		5	units	Flat Iron			
		5	units	Ironing Board			
		5	units	Steam Press			
		5	units	Sleeve Board/ Ham			
		10	units	Model Form			
		2	units	Life Size Mirror			
		25	pcs	Bobbin Case			
		50	pcs	Bobbin Spool			
		3	units	Hanger Rack			
		5	pcs	Gauge Foot 1/4			
		5	pcs	Gauge Foot 1/16			
		25	pcs	Calculator			
		2	units	Wooden Cabinet with sliding door(Display Cabinet)			
		5	units	High speed sewing machine			
		5	units	Manual sewing machine			
		1	units	Edging machine			
		1	units	Button holer			
MATERIALS							
		25	Rolls	Pattern paper			
		25	pcs	Tailor's Chalk			
		25	packss	Tracing paper			
		25	pcs	Pencil			
		25	pcs	Eraser			
		75	pcs	Thread (assorted colors)			
		8	packs	Needle DB1x11			
		8	packs	Needle DB 1 x 14			
		3	packs	Needle DC 1x14			
		1	pack	Needle TV 1 x14			
		12.5	yards	Fusible Interlining			
		3	Rolls	Band Roll			
		37.5	yrds	Fabric (tetoron)			
		75	yards	Fabric (Chinese Cotton)			
		10	yards	Fabric (coco)			
		120	yards	Fabric (for pants and shorts)			
		37.5	yards	Fabric (for jogging pants)			
		3	rolls	Garter 1 ½"			

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Facilities				TOOLS, EQUIPMENT & MATERIALS						
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION		
					150	Zipper 6"				
					2 boxes	Hook and Eye				
					3 gal.	Machine Oil				
					3 packs	Hand Needle				
					2 boxes	Buttons Flat				

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				Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
TOUR GUIDING SERVICES NC II				EQUIPMENT							
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	1	unit	Computer with internet connection & LCD projector	2	units	Vehicle*		
				2	units	Two-way radio			*NOTE: Implementation of the training program can be made possible through a MOA between the Training school and Industry for the use of the facilities.		
Student/Trainee Working Space	1 x 1	1	25	1	unit	Mobile phone			This is in response to the limitations of schools due to high cost of equipment.		
Lecture/Demo Room	8 x 5	40	40	1	unit	Telephone			Air-conditioned vehicles can be hired on a per trip basis subject to requirement.		
Learning Resource Center	3 x 5	15	15	1	unit	Fax Machine					
Facilities/Equipment/ Circulation Area			24	1	unit	Camera					
Total workshop area:			104	1	unit	Video camera					
				1	unit	Microphone					
				1	unit	Bullhorn					
				5	sets	First aid kit					
				MATERIALS							
						Uniform (authorized tour service apparel)					
						Whistle					
						Hat					
						Map					
						Ballpen					
						Calculator					
						Pencil					
						Record book					
						Compass					
						First aid kit					
						Tour Guide Manual					
						Mobile Phone					
						Resources/Manuals					
						Schedules of airlines, shipping companies, bus and train					
						Company policy					
						Statutory regulations					
						Updated/current year Map					
						Updated Philippine travel Brochures					
						Flyers & handouts of different topics of discussion					
						Used airline tickets					
						Current Itinerary of Domestic Travel					
						Philippine Travel Guidebooks ie: Lonely Planet, Fodor's Guide, Insight Guide, etc					
						DOT updated regional situationer reports, statistics & marketing plan					

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				Quantity	ITEM/TECHNICAL SPECIFICATION		
TOURISM PROMOTION SERVICES NC II							
				EQUIPMENT			
				5	units		Computer with internet connection
				1	unit		LCD projector
Student/Trainee Working Space	1 x 1	1	25	1	unit		Telephone
Lecture/Demo Room	8 x 5	40	40	1	unit		Fax machine
Learning Resource Center	3 x 5	15	15	1	unit		Sound system
Facilities/Equipment/ Circulation Area			24	1	unit		Photocopier
Total Workshop Area			104	1	unit		Printer
				MATERIALS			
					1 set		Telephone Directory
							Philippine Map
							World Map
							Updated Philippine travel brochures
							Philippine Travel Guidebooks
							DOT updated regional situationer reports, statistics and marketing plan
							Sample updated schedules of different modes of transportation to different local destinations
BREAD AND PASTRY PRODUCTION NC II							
				TOOLS			
				12			Measuring cup, solid
				12			Measuring cup, liquid (250 & 500 ml)
Lecture/Demo Area	8 x 5	40	40	25			Measuring spoon
Student/trainee working space	1 x 1	1	25	3			Cake turn table
Laboratory	8 x 5 sq.	40	40	20			Decorating tips
Learning Resource Center	3 x 5 sq.	15	15	6			Rolling pins
Facilities/Equipment/Circulation Area			36	6			Pie pan sizes 6, 8, 10
Total Workshop Area:			156	6			Sheet pans
				6			Pie cutter
				6			Rubber scrapper
				6			Palette knife
				6			Cake stand with tier
				6			Cake pillars
				6			Sauce pan, s/s
				6			Ladles s/s
				6			Knives s/s with plastic handle
				6			Chopping board, color coded
				6			Scale 2, 10 kgs
				6			Grater
				6			Wooden spoons
				6			Beaters

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				Facilities		Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
				12	set	Mixing bowl (6 pcs per set)			
				6		Wire whisk			
				6		Muffin pan, small			
				6		Muffin pan, medium			
				6		Muffin pan, big			
				6		Loaf pan, small			
				6		Loaf pan, medium			
				6		Loaf pan, big			
				4		Rectangular pan 1x8x8			
				6		Round pan 6,8, 10, 12, 14, 16			
				6		Pie pan			
				6		Flour sifter			
				6		Strainer			
				3		Double boiler			
						Piping bags			
						Coupler			
				EQUIPMENT					
				6		Commercial Mixers with complete attachments			
				1		Mechanical Dough roller			
				1		Decker oven			
				1		Compressor			
				1		Dough cutter			
				4		Gas range			
				1		Upright freezer			
				1		Refrigerator			
				MATERIALS					
						Cake flour			
						Bread Flour			
						All-purpose			
						Sugar			
						Yeast			
						Butter			
						Margarine			
						Butter (French bread)			
						Cooking oil			
						Lard			
						All-purpose cream			
						Whipping cream			
						Confectioner sugar			
						Knox gelatin			
						Flaked almonds			
						Chocolate chips			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				TOOLS, EQUIPMENT & MATERIALS			
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
					Chocolate, shredded		
					Cherries with stem		
					Cherries		
					Food colors		
					Tropical fruits		
					Whole wheat, rye, multi grain		
					Cream cheese		
					Paper cups		
					Tulip paste		
					Sugar lace		
					Pineapple juice		
					Contreau		
					TRAINING MATERIALS:		
					Wilton decorating magazine, video		
					Good Housekeeping Baking Book		
FOOD AND BEVERAGE SERVICES NC II							
					TOOLS		
				8	Dinner plates, 10"		
				8	Show/base plates, 12"		
Lecture/Laboratory Area	5 x 10	50	50	8	Fish plates, 8"		
Wash Room	2 x 5	10	10	8	Dessert plates, 7"		
Tool Room/Supply Room	5 x 4	20	20	8	Cereal plates, 5"		
Circulation Area	5 x 5	25	25	12	Side plates or bread plates, 6"		
Total Workshop Area :			105	8	Bouillon cups and saucers, 8-12 oz.		
				8	Teacups and saucers, 6 2/3 oz.		
				8	Demi-tasse, 3 1/3 oz.		
				2	Coffee pots, 2 pint		
				2	Tea pots, 2 pint		
					CUTLERIES		
				8	Dinner knives		
				8	Dinner forks		
				8	Salad knives		
				16	Salad forks		
				8	Fish knives		
				8	Fish forks		
				8	Soup spoons		
				8	Dessert spoons		
				8	Dessert forks		
				8	Teaspoons		
				4	Demi-tasse spoons		
				8	Long spoons		
				8	Cocktail forks		
				8	Service forks		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION
				8	Service spoons				
				4	Sauce ladles				
				4	Soup ladles				
				2	Cake servers				
				GLASSWARE					
				8	Red wine glasses				
				8	White wine glasses				
				8	Water goblets				
				WAITERING TOOLS, MATERIALS AND EQUIPMENT					
				TABLES					
				2	Square tables good for 4 persons				
				CLOTH					
				2	54"X54				
				2	90"X90"				
				2	64"X64"				
				2	72"X72"				
				4	Side towels				
				OTHER ACCESSORIES					
				2	Salt shakers				
				2	Pepper shakers				
				2	Pepper mills				
				2	Rectangular trays				
				2	Oval trays				
				2	Round trays				
				2	Tooth pick holders				
				2	Sugar containers				
				2	Creamer containers				
				2	Oil and vinegar containers and holders				
				2	Sauce boats				
				8	Menu cards				
				2	Order pads				
				2	Pens				
				2	Flower bases				
				2	Reservation books				
				2	Water pitchers				
				8	Plate covers				
				2	Bill folder/change trays				
				2	Ice bucket with tongs				
				EQUIPMENT					
				8	Dining chair				
				2	Tray stand (optional)				
				2	Waiter station cabinet				
				MATERIALS					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
				25	50 cm X 50 cm Table napkin		
HOUSEKEEPING NC II							
				TOOLS			
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	5	Mops		DISCRETIONARY SUPPLIES
				5	Brushes	5	fruit,
Lecture	8 x 5	40	40	5	Brooms	5	beverages
Demo/Mock/ Room	4 x 6	24	24	5	Buckets	5	Chocolates
Learning Resource Center	3 x 5	15	15	5	Dust pans		TRAINING RESOURCES/MATERIALS
Facilities/Equipmen/ Circulation Area			24	2	garbage receptacles	25	enterprise promotional materials
Total workshop area:			114	2	Sorting baskets/ Laundry Baskets	25	local tourist information
				1	Step Ladder	2	magazines
				2	Squeegee	2	newspapers
				2	Water Hoses	2	lodging agreement
				10	Lint Free Cleaning Cloths		Housekeeping textbooks/ references
					Scrubbing Foam		
				10	Dish Sponges		
				5	Spray Bottles		
				5	Anti-Static Dusters		
				10	Gloves		
				5	Caution Signs		
				2	Mop Squeezer		
				EQUIPMENT			
				1	Projector Screen		
				1	Overhead Projector		
				2	Electric Fan		
				1	First Aid Cabinet		
				1	Instructor's Desk and Chair		
				3	Fire Extinguisher		
				2	Emergency Light		
				2	Directional Signage		
				2	Air condition		
				25	Armed Chairs		
				1	Telephone		
				1	Computer		
				1	TV		
				1	Video player		
				1	Fax machine		
				1	Refrigerator		
				1	Hairdryer		
				1	Alarm clock		
				1	Shelving		
				1	Cart		
				1	Trolley		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Facilities		TOOLS, EQUIPMENT & MATERIALS	
				Quantity	ITEM/TECHNICAL SPECIFICATION		
				1	Coffee Maker		
				1	Electric kettle		
				1	Electric jug		
				1	Toilet Caddy		
				1	Carpet sweeper		
				1	Vacuum cleaner (dry and wet)		
				1	Polisher (electric with complete accessories)		
					LAUNDRY EQUIPMENT		
				1	Washers		
				1	Dryer		
				1	Flat iron		
				1	Ironing Board		
				1	Steam pressers		
				1	Sorting shelves		
				1	Drying cleaning machine		
				1	Labeler		
					MATERIALS		
				2 rms	Bond Paper		
				20 pcs.	Folders		
				1 pc.	Logbook		
				1 box	Transparency Acetate		
				2	White Board		
				5	Whiteboard Markers		
				2	Whiteboard Eraser		
				5	Marking Pen		
					Room Supplies		
				2	stationery		
				2 sets	Linen (for single bed and double bed)		
				1 set	glassware		
				1 set	cutlery		
				1 pack	tea		
				1 pack	coffee		
				1 pack	sugar		
				1 pack	milk		
				1 pack	Biscuits		
				1	Beds (Single)		
				1	Bed (Queen)		
				1	Holy Bible		
				2 pairs	slippers		
				5	flashlight		
				1 set	Light fittings		
				1	Mirrors		
				5	Wardrobes		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION					SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
Facilities				TOOLS, EQUIPMENT & MATERIALS						
				Quantity	ITEM/TECHNICAL SPECIFICATION					
				5	Hangers					
				2	Ashtrays					
				5 for each items	Variety of linen and clothing items and fabrics					
					CLEANING AGENTS					
					General and sport cleaning agents					
				5	- Cleaning Detergent					
				5	- Liquid Detergent					
				5	- Cleaning Solution					
				5	- Sanitizing Agents					
				5	- Fabric Softener					
				5	- Chlorine Bleach					
					PROTECTIVE CLOTHING					
				5	- All-Purpose Detergent					
				5	- Stain Removing Agents					
				2	furniture and floor polishers					
				5	Air Freshener					
				5	Pesticides					
				5	Deodorizers					
				5	Toilet Disinfectant					
				2	Overalls					
				2	Jackets					
				25	Aprons					
				2	Goggles					
				2	masks					
				2	Headwear					
				2	Waterproof clothing and footwear					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
Facilities				TOOLS, EQUIPMENT & MATERIALS			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
ATTRACTIONS AND THEME PARKS OPERATIONS NC II							
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS			
				2 sets	Rescue kit (toolbox)		
				2 sets	First aid kit		
Student/Trainee Working Space	1 x 1 m.	1 sq. m.	25 sq. m.	EQUIPMENT			
Lecture/Demo Room	8 x 5 m.	40 sq. m.	40 sq. m.	5 units	Computer with internet connection		
Learning Resource Center	3 x 5 m.	15 sq. m.	15 sq. m.	1 unit	LCD projector		
Facilities/Equipment/ Circulation Area			24 sq. m.	2 units	Two-way radio		
Total workshop area:			104 sq. m.	2 units	Mobile phone		
				1 unit	Telephone		
				1 unit	Fax machine		
				1 unit	Digital camera		
				1 unit	Video camera		
				1 unit	Microphone		
				1 unit	Sound system		
				1 unit	Megaphone		
				1 unit	Photocopier		
				2 sets	Personal protective equipment and clothing		
				1 unit	Fire extinguisher		
				1 set	Cleaning equipment		
				MATERIALS			
				1 set	Telephone Directory		
				1 set	Cleaning materials		
INDUSTRIAL ARTS							
AUTOMOTIVE SERVICING NC I							
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS			
				2	sets	Box wrench of 28 pcs, 4mm-32mm	
				2	sets	Open end wrench of 28 pcs, 4mm-32mm	
Workshop/Laboratory area		6 per student	150	2	sets	Socket wrench	
Lecture Room		28	28	2	pcs	Pliers	
Learning Resource Center		20	20	6	pcs	Screw driver, one of each kind	
Wash/Comfort room		10	10	4	sets	Wire strippers	
Storage/Tool room		20	20	4	pcs	Mechanic's hammer	
Circulation Area			60	25	pcs	Apron	
Total Area			288	2	pcs	Impact wrench	
				4	units	Soldering gun/iron	
				2	sets	Carburetor tool set, 8 pcs	
				2	units	Oil pressure tester	
				1	unit	Injection nozzle tester	
				4	sets	Torque wrench	
				4	sets	Feeler gauge	
				4	units	Cell tester	

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation				
				TOOLS, EQUIPMENT & MATERIALS				
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION	
				4	sets	Hydrometer		
				2	units	Dial gauge		
				2	sets	Bore gauge		
				4	sets	Caliper, 25mm to 100mm		
				EQUIPMENT				
				2	units	Vehicle		
				2	units	Engine (Diesel and Gas)		
				2	units	Hydraulic jack/lift		
				2	units	Ignition timing light for diesel engine		
				2	units	Ignition timing light for gasoline engine		
				4	units	Tachometer		
				4	units	Differential and front axle		
				4	units	Multimeter		
				4	units	Diesel fuel injector assembly		
				MATERIALS				
				20 ltrs.		Engine oil		
				10 kg		Grease		
				10 tube		Sealant /adhesive		
				20 ltrs.		Hydraulic oils/gear oil		
				20 ltrs.		Automatic transmission fluid		
				10 pcs.		Wheel wedges		
				10 pcs.		Test lamp		
				2 sets		Overhauling gasket (per engine model)		
				25 pcs.		Goggles		
				25 pcs.		Gloves		
CARPENTRY NC II								
	Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS			
					25	pcs	Cross cut saw	LEARNING MATERIALS
					25	pcs	Claw hammer 8 oz	Interactive instructional modules
	Student/Trainee Working Space	2 x 3 per student/trainee	6	150	25	pcs	Claw hammer 16 oz	Books in carpentry
	Contextual Learning Laboratory / Lecture Room	4 x 5	20	20	25	pcs	Chalk line reel	
	Learning Resource Center	4 x 5	20	20	25	pcs	Pencil	
	Tool Room/Storage	2 x 5	10	10	25	sets	Nylon string	
	Wash room	2.5 x 4	10	10	25	pcs	Pull-push rule, 15 meters	
	Circulation area	10 x 6	60	60	5	pcs	Crow bar	
	Total Area			270	25	pcs	Framing square	
					25	pcs	Try square	
					5	pcs	Spirit level, 36 in.	
					1	pcs	Automatic level	
					25	pcs	Nail pouch	
					25	set	Nail set	

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION			
				12	pcs	Chisel, ¼"						
				12	pcs	Chisel, ½ "						
				12	pcs	Chisel, ¾ "						
				12	pcs	Chisel, 2"						
				6	pcs	Adjustable wrench, 8 inches						
				6	pcs	Adjustable wrench, 12 inches						
				1	set	Combination spanner, 8mm to 24mm						
				12	m	transparent hose, white, 3/8 in diameter						
				12	m	Transparent hose, white, ¼ in.						
				1	pcs	Hard hat, white, (for trainer)						
				25	pcs	Hard hat, yellow (for trainees)						
				25	pairs	Gloves, knitted						
				25	pairs	Safety shoes						
				25	pcs	Goggle						
				EQUIPMENT								
				5	sets	H-frame scaffolds,						
				2	unit	Portable electric drill						
				2	unit	Portable planer						
				2	unit	Portable circular saw						
				2	unit	Portable jig saw						
				MATERIALS								
				25	pcs	Lumber, 2"x6"x8', kiln dried, tangile						
				25	pcs	Lumber, 2"x6"x12', kiln dried, tangile						
				50	pcs	Lumber, 2"x2"x12', kiln dried, tangile						
				25	pcs	Wood moulding, 1"x4"x8', ogee						
				25	pcs	Wood moulding, 1"x1"x8', quarter round						
				25	pcs	Wood moulding, 1"x1"x8', cove						
				50	pcs	rough lumber 2"x2"x12'						
				50	pcs	Loose pin hinges, 4"						
				2	kg	Finishing wire nail, 1"						
				2	kg	Finishing wire nail, 1½ inches						
				2	kg	Finishing wire nail, 2 inches						
				2	kg	Finishing wire nail, 3 inches						
				2	kg	Common wire nail, 1"						
				2	kg	Common wire nail, 1½ inches						
				4	kg	Common wire nail, 2 inches						
				4	kg	Common wire nail, 3 inches						
				25	pcs	Plywood,1/4"x4'x8'						
				5	liters	White glue						
				10	pcs.	Piano hinge						
				100	pcs.	Butt hinge assorted sizes						
				25	pcs.	Concealed hinge						

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
				Facilities		Quantity	ITEM/TECHNICAL SPECIFICATION	
					25 pcs.	Double-action hinge		
CONSUMER ELECTRONIC SERVICING NC II								
	Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS			
				15	pc	Long-nosed pliers		
				15	pc	Diagonal cutters		
	Lecture Area*	4 x 5	20	20	15	pc	Standard screwdrivers	
	Laboratory Area (2 Workstations) 3.5 x 2.5		20	45	15	set	Soldering iron, 30w	
	Learning Resource Area	4 x 5	20	20	15	set	Desoldering tools, 30w	
	Tool Room/Storage Area	4 x 4	16	16	5	set	Screw driver assorted, Phillips, slotted	
	Wash ,Toilet & Locker Room	2 x 5	10	20	5	set	Wrenches assorted	
	Total			121	5	set	Allen wrench/key	
	Facilities / Equipment / Circulation**			36	15	pc	Utility knife/stripper	
	Total Area			157	15	set	Pliers assorted, Long nose, Side cutter	
				1	set	Test jig		
				10	pcs.	Ball peen hammer		
				5	pcs.	Bluetooth		
				15	pcs.	Cleaning brush		
				5	pcs.	Flashlight		
				10	pcs.	Hot air soldering tool		
				5	pcs.	Nut drivers (assorted)		
				5	set	Open tool 6600/7650		
				5	set	Set of torx/star bit		
				10	pcs.	Test light		
				15	pcs.	Tweezer		
				15	pcs.	Wire stripper		
				EQUIPMENT				
				10	pc	Multimeter		
				5	set	ESD free work bench with mirror Back-to-back/one-sided		
				5	set	High grade magnifying glass with lamp		
				5	pcs.	High voltage probe		
				5	pcs.	Infrared		
				10	pcs.	Multi-testers (analog/digital)		
				5	pcs.	Oscilloscope		
				5	unit	PC Computer		
				5	unit	Power Supply-variables		
				5	unit	Signal generator - AF/RF		
				10	unit	Step-down transformer		
				5	unit	TV pattern generator		
				5	unit	Variable power supply		
				5	pcs.	Board for rework		
				MATERIALS				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation						
Facilities				TOOLS, EQUIPMENT & MATERIALS			Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
				Quantity	ITEM/TECHNICAL SPECIFICATION					
				1 spool	Solder lead					
				1 set	Cleaning brush					
				1 kilo	lead free solder					
				1 kilo	rosin core solder					
				10m	wire stranded, #22, red					
				10m	wire stranded, #22, black					
				10m	wire stranded, #22, white					
				10m	wire stranded, #22, blue					
				10m	wire stranded, #22, yellow					
				10m	wire stranded, #22, green					
				5ml	silicon grease					
				50 pcs	resistors (different values)					
				50 pcs	capacitors (different values)					
				1pc	transformer					
					Assorted electronic components					
					Cleaning agent					
					Plate for reball					
					Lubricants					
					Lead-free solder					
					Software flasher					
ELECTRICAL INSTALLATION AND MAINTENANCE NC II				TOOLS						
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS						
				Quantity	ITEM/TECHNICAL SPECIFICATION					
				5	pcs. Spirit level					
				5	pcs. Hack saw					
Student/Trainee Working Space	2.50 x 2.50 per student/trainee	6.25 per student	156.25	5	pcs. Pipe cutter					
Contextual Learning Laboratory	4 x 5	20	20	5	pcs. Plumb bob					
Learning Resource Center	4 x 5	20	20	5	pcs. Pipe reamer					
Facilities/Equipment/Circulation area	10 x 6	60	60	5	pcs. Pipe threader					
Total Area			256.25	5	pcs. Pipe bender					
				5	pcs. Bolt cutter					
				5	pcs. Jack hammer set					
				12	pcs. Electrician Pliers					
				12	pcs. Screwdrivers set					
				5	set Box wrench (metric)					
				12	pcs. Wire splicer					
				12	pcs. Wire stripper					
				12	pcs. Electrician knife					
				12	pcs. Tools holster					
				5	pcs. Push-pull 0-5 mtrs					
				5	pcs. Claw hammer					
				5	pcs. Ballpeen hammer					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation				
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION		
				5	pcs.	Prick punch					
				5	pcs.	Heat gun 1200 watts					
				5	pcs.	Heavy-duty soldering iron 1000 watts					
				5	pcs.	Flat file smooth 8"					
				5	sets	box wrench (English)					
				EQUIPMENT							
				5	units	Power drill					
				5	units	Portable grinder					
				1	unit	Power saw					
				5	units	Fire alarm system					
				5	units	Pipe-in Music/ Paging					
				5	units	Security equipment					
				5	units	CCTV					
				5	units	MATV Master					
				5	units	Car park ramp detector					
				10	units	Multi-tester					
				5	units	Mega-ohmmeter					
				5	units	Clamp ammeter					
				5	units	Megger					
				5	units	High potential tester					
				5	units	Earth resistance tester					
				5	units	Labeling machine					
				1	unit	Fire extinguisher KGS ABC					
				5	units	Industrial Fan					
				MATERIALS							
					50 pcs.	RSC					
					50 pcs.	IMC					
					50 pcs.	EMT					
					5 pcs.	Entrance cap					
					125 pcs.	Locknut					
					125 pcs.	Bushing					
					250 pcs.	Metal strap					
					10 pcs.	Floor outlet					
					5 pcs.	Ground fault					
					5 pcs.	Current interrupting outlet					
					25 pcs.	Working gloves					
					25 pcs.	Safety shoes					
					25 pcs.	Proper working clothes					
					25 pcs.	Hard hat					
					25 pcs.	Safety goggles					
					5 boxes	Wire AWG #12					
					5 boxes	Wire AWG #14					
					5 rolls	Electrical tape					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION				
				1 box	Wood screw ½" x 8						
				50 m	Circular loom (mica tubing 3/8")						
				25 pcs.	Receptacle surface type						
				25 pcs.	Receptacle flush type						
				25 pcs.	Incandescent bulb 50 w/ 250V AC						
				25 pcs.	Convenient outlet c.o. (flush type) 2 gang w/ plate and cover						
				10 pcs.	PVC square box 4 x 4						
				100 pcs.	PVC clamp ½						
				100 pcs.	PVC clamp ¾						
				50	Assorted conduit						
				50 mtrs	Corrugated PVC ½", ¾						
				50	PVC conduit ½, ¾						
				50 pcs.	Junction box PVC						
				50 pcs.	Junction box metal						
				50	Connectors PVC, ½						
				50	Connectors PVC, ¾						
				50	Connectors RSC, ¾						
				20 pcs.	Elbow PVC ½						
				20 pcs.	Elbow PVC ¾						
				20 pcs.	Elbow RSC ½						
				20 pcs.	Elbow RSC ¾						
				5 sets	Panel board with 70 amp main and subcircuits						
					§ 20 amps, 2 pcs.						
					§ 30 amps, 2 pcs.						
					§ 15 amps, 2 pcs.						
				40 pcs.	Switch (3 way with plate and cover)						
				20 pcs.	Switch (single pole with plate and cover)						
				20 pcs.	Switch (4 way with plate and cover)						
				10 rms.	Bond paper						
				1 pc.	Whiteboard 4 x 8 x ¾						
				1 pc.	Whiteboard 4 x 4 x ¾ with movable stand						
				1 box	Whiteboard marker, assorted color						
				2 pcs.	Whiteboard eraser magnetic						
				1 box	Push pin						
				1 pc.	Pencil sharpener						
				3 boxes	Pencil with eraser						
				2 kgs.	Rag						
				5 ltrs.	Cleaning agent liquid						
				1 unit	First aid kit						
				10 mtrs.	Emery cloth #120						
				25 pcs.	Utility box, 2' x 4"						

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
PLUMBING NC II				TOOLS			
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters				
				5 pcs.	cold chisel, 6 "		Resource Materials/ manuals
				5 pcs.	cold chisel, 8"		Textbook
Student/Trainee Working Space	5 x 8	40	40	5 pcs.	oiler	3 pcs.	National Plumbing Code
Lecture Room/Demo Room	5 x 5	25	25	5 pcs.	Claw hammer, 16 oz.	3 pcs.	Plumbing Repair
Wash Room	2 x 5	10	10	5 pcs.	Ball peen hammer, 16 oz.	3 pcs.	Modern Plumbing
Tool Room	5 x 5	25	25	5 pcs.	Cross peen hammer, 16 oz.		
Laboratory Area	5 unit – 2 x 4	40	40	5 pcs.	Hack saw		
Facilities/Equipment/Circulation area	6 x 7	42	42	5 pcs.	Hand saw, 25" long		
Workshop Area	10 x 18		180	5 pcs.	C-clamp, 12"		
				10 pcs.	C-clamp, 6"		
				10 pcs.	Pull & push rule		
				10 pcs.	Steel rule, 1 meter		
				5 pcs.	Try square		
				3 pcs.	Tin snip		
				5 pcs.	Steel square		
				5 pcs.	Phillips screw driver		
				5 pcs.	Flat screw driver		
				3 pcs.	Bending tool, 15mm diameter capacity		
				5 pcs.	Adjustable wrench, 8"		
				5 pcs.	Adjustable wrench, 14"		
				5 pcs.	Straight pipe wrench, 8"		
				5 pcs.	Straight pipe wrench, 12"		
				5 pcs.	Straight pipe wrench, 18"		
				6 pcs.	Spud wrench, 8 "		
				6 pcs.	Spud wrench, 12 "		
				5 pcs.	Pipe threader, drop head		
				5 pcs.	Pipe vise, 4" capacity		
				5 pcs.	Pipe reamer, 2" capacity		
				5 pcs.	Pipe cutter, 2" capacity		
				25 pcs.	Gloves		
				25 pcs.	Hard hat		
				25 pcs.	Safety shoes		
				25 pcs.	Goggles		
				25 pcs.	Welding mask		
				25 pcs.	Ear Muff		
				1 pc.	Flaring tools		
				1 pc.	Strap wrench, 8"		
				1 pc.	Strap wrench, 12"		
				1 pc.	Chain wrench		
				2 pcs.	Telescopic basin, 8"		
				2 pcs.	Telescopic basin, 14"		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Facilities				TOOLS, EQUIPMENT & MATERIALS	
				Quantity	ITEM/TECHNICAL SPECIFICATION				
				2 pcs.	Crow bar				
				EQUIPMENT					
				1 unit	Welding machine				
				1 unit	Threading machine				
				1 unit	Proving pump				
				1 unit	Air compressor				
				1 unit	Electric drill				
				1 unit	Portable grinder				
				1 unit	Threading machine				
				1 unit	Welding machine				
				1 unit	Oxy-acetylene cutting outfit				
				5 units	Fire extinguishers				
				MATERIALS					
				1 pc.	Soapstone				
				1 pc.	Concrete cutter				
				1 pc.	Cut-off disc				
				PVC pipes and fittings					
				10 pcs.	elbow 90 ^o , 2" dia.				
				10 pcs.	elbow 90 ^o , 3" dia.				
				10 pcs.	elbow 90 ^o , 4" dia.				
				10 pcs.	elbow 45 ^o , 2" dia.				
				10 pcs.	elbow 45 ^o , 3" dia.				
				10 pcs.	elbow 45 ^o , 4" dia.				
				10 pcs.	tee branch, 2"				
				10 pcs.	tee branch, 3"				
				10 pcs.	tee branch, 4"				
				10 pcs.	wye branch, 2"				
				10 pcs.	wye branch, 3"				
				10 pcs.	wye branch, 4"				
				10 pcs.	coupling, 2"				
				10 pcs.	coupling, 3"				
				10 pcs.	coupling, 4"				
				5 pcs.	clean-out ferrule, 2"				
				5 pcs.	clean-out ferrule, 3"				
				5 pcs.	clean-out ferrule, 4"				
				5 pcs.	tap tee, 2"				
				10 pcs.	p-trap assembly, 2" dia.				
				10 pcs.	wye branch reducer, 3"X2"				
				10 pcs.	wye branch reducer, 4"X2"				
				10 pcs.	tee branch reducer, 3"X2"				
				10 pcs.	tee branch reducer, 4"X2"				
				20 pcs.	PVC pipe, 50mm				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation				
				Facilities		TOOLS, EQUIPMENT & MATERIALS		Quantity for 20
				Quantity	ITEM/TECHNICAL SPECIFICATION			
				10 pcs.	PVC pipe, 76mm			
				10 pcs.	PVC pipe, 101mm			
				G.I. pipes and fittings				
				10 pcs.	elbow 90 ^o , 2" dia.			
				10 pcs.	elbow 90 ^o , 3" dia.			
				10 pcs.	elbow 90 ^o , 4" dia.			
				10 pcs.	elbow 45 ^o , 2" dia.			
				10 pcs.	elbow 45 ^o , 3" dia.			
				10 pcs.	elbow 45 ^o , 4" dia.			
				10 pcs.	tee branch, 2"			
				10 pcs.	tee branch, 3"			
				10 pcs.	tee branch, 4"			
				10 pcs.	coupling, 2"			
				10 pcs.	coupling, 3"			
				10 pcs.	coupling, 4"			
				5 pcs.	clean-out ferrule, 2"			
				5 pcs.	clean-out ferrule, 3"			
				5 pcs.	clean-out ferrule, 4"			
				5 pcs.	tap tee, 2"			
				10 pcs.	p-trap assembly, 2" dia.			
				30 pcs.	straight elbow 13mmX90 ^o			
				30 pcs.	straight elbow 13mmX90 ^o			
				30 pcs.	coupling, 13mm			
				30 pcs.	straight elbow 13mmX45 ^o			
				30 pcs.	straight tee, 13mm			
				30 pcs.	tee reducer, ¾"X13mm			
				30 pcs.	straight bushing, 13mm			
				30 pcs.	bushing reducer, 19mmX13mm			
				30 pcs.	bushing reducer, 25mmX13mm			
				30 pcs.	bushing reducer, 13mmX9mm			
				10 pcs.	union, ½ "dia.			
				10 pcs.	union, ¾" "dia.			
				10 pcs.	cap, ½ "dia.			
				10 pcs.	cap, ¾" "dia.			
				10 pcs.	street elbow, 13mm			
				20 pcs.	G.I. pipe 19mm			
				10 pcs.	G.I. pipe 13mm			
				10 pcs.	G.I. pipe 25mm			
				Copper pipes and fittings				
				10 pcs.	copper, hard drawn, 15mm, type M			
				30 pcs.	Tee, 15mm			
				30 pcs.	elbow, 15mm			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
Facilities				TOOLS, EQUIPMENT & MATERIALS			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
				30 pcs.	coupling, 15mm		
				1 pc.	water closet, close coupled		
				1 pc.	water closet, flush valve		
				10 pcs.	faucet		
				2 pcs.	shower valve diverter		
				1 pc.	lavatory		
				1 pc.	shower head		
				1 pc.	lavatory faucet		
				1 pc.	bathtub		
				1 pc.	urinal, wall hang		
RAC SERVICING NC II							
				TOOLS			
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	10 pcs.	Flaring tool		
				10 pcs.	Swaging tool		
LECTURE AREA*	4.00 x 8.00	32	32	5 pcs	Tube cutter		
LEARNING RESOURCE AREA	4.00 x 6.00	24	24	5 pcs	Tube bender		
WORKSHOP	6x10	60	60	4 pcs.	Sevice cylinder 2.5 kg.,10 kg. Capacity		
TOOL/STORAGE AREA*	4.00 x 4.00	16	16	10 pcs	Electrical pliers		
WASH, TOILET AND LOCKER ROOM*	3.00 x 4.00	12	12	10 pcs.	Pliers, long nose		
TOTAL			144	10 pcs.	Screw driver, flat		
FACILITIES/EQUIPMENT/ CIRCULATION			44	10 pcs.	Screw driver Philips		
TOTAL AREA			188	10 pcs.	Files		
				5 sets.	Allen wrench		
				5 pcs.	Adjustable wrench 8", 10"		
				5 sets	Open wrench		
				5 sets	Box wrench		
				5 pcs.	Pipe wrench		
				5 pcs.	Vise grip , 6 , "8 "		
				5 pcs.	Thinners snip, 8"12"		
				10 pcs.	Bullpen hammer, 12 oz		
				5 pcs.	Rubber mallet ,oz		
				10 pcs.	Hack saw		
				5 pcs.	Spray gun		
				10 pcs.	Steel rule , metric & english		
				10 pcs.	Push rule		
				5 pcs.	Tri- square		
				8 pcs.	Pinch off tool		
				5 pcs.	Soldering iron, 100w , 220 volts		
				EQUIPMENT			
				3 units	Vacuum pump motor, high stage, 1/2 HP , 220 volts		
				2 units	Recovery/ Recycling unit , portable type, 220 volts		
				2 units	Oxy- Acetylene welding machine w/ complete outfit		
				3 units	Reusable Service Cylinder 13.5kg		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation				
				TOOLS, EQUIPMENT & MATERIALS				
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION	
				1 unit	Refrigerator , single door 5 cu. Ft. 220 volts			
				1 unit	Refrigerator, two door top mount freezer, 6 cu. Ft. 220 volts			
				1 unit	Refrigerator , two door no frost, 6 cu. Ft. 220 volts			
				1 unit	Freezer chest type, 10 cu Ft. 220 volts			
				1 unit	Freezer, upright 6 cu. Ft. 220 volts			
				1 unit	Water dispenser 220 volts			
				3 units	Analog Clampmeter			
				3 units	Digital Clampmeter			
				2 units	Window type aircon 2 hp 220 volts			
				1 unit	Air compressor, complete w/ accessories 220 volts			
				5 units	Compressor motor 100 w , 220 volts			
				2 units	Electric drill portable, 3/8 ½ , Chuck, 220 volts			
				1 set	Pedestal grinding machine, 6" grinding wheel ¾ " hp. 220 volts			
				1 unit	Arc welding machine, Ac max. 250 amps. 220 V, 60 hz. Heavy duty			
				10 sets	Gauge manifold w/ hoses			
				5 sets	Digital Volt ohm mili- ammeter			
				5 sets	Analog VOM			
				1 set	Electronic leak detector (Fluorine based)			
				1 set	Electronic leak detector (Hydrocarbon based)			
				5 sets	Thermometer, dial type			
				5 sets	Digital Thermometer			
				1 set	Nitrogen regulator			
				2 units	Refractometer			
				2 units	Vacuumeter			
				1 unit	Refrigerant identifier			
				2 units	Weighing scale			
				Personal Protective Equipment				
				15 pairs	Safety gloves			
				15 pairs	Safety shoes			
				15 pcs	Safety goggles/spectacles			
				15 pcs	Face mask			
				MATERIALS				
				1 roll	Copper tube 1/4 " , 3/8", 5/16", ½, 1/8, 3/16, "OD, 50 ft. per roll			
				1 roll	Aluminum tube, 3/8 "OD, 100 ft. per roll			
				1 roll	Capillary tube 1/16, OD, 100 ft. per roll			
				50 pcs.	Silver rod			
				50 pcs.	Aluminum rod			
				10 pcs.	Silver flux			
				15 pcs.	Filter drier , ¼ "OD flared connection			
				15 pcs.	Filter drier , ¼ " OD solder connection			
				25 pcs.	Flare cap , ¼ " OD			
				25 pcs.	Flare union, ¼ " OD			
				25 pcs.	Flare plug, ¼ OD			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
Facilities				TOOLS, EQUIPMENT & MATERIALS					
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION		
				13.6kg.	Refrigerant 134a				
				13.6kg.	Refrigerant 22				
				13.6 kgs	R 290				
				1 cyl.	Nitrogen gas				
				2 cyl.	Oxygen				
				2 cyl.	Acetylene gas				
				10 pcs.	Dual capacitor 25, 30, 35 mfd 370 vac				
				10 pcs.	Fan capacitor ,3, 4, 5, 6, 7, mfd 220 vac				
				10 pcs.	Starting capacitor 60, 80, 100-105 mfd 220 volts				
				10 pcs.	Potential relay 1, 1.5 2 hp 220 volts				
				10 pcs.	Overload protector 1/6 ,1/8, 1/10 , 1/5, 1.5 2hp 220 volts				
				10 pcs.	Current relay 1/5, 1/6, 1/8 , 1/10, hp 220 volts				
				10 pcs.	Evaporator coil				
				10 pcs.	Condenser				
				5 pcs.	Soldering lead				
				5 pcs.	Soldering paste				
				Tools/equipment for Conversion					
				1 set	Insulated terminal connectors/rings				
				5 pcs	Sealed terminal box				
				5 sets	Screwed cable glands (various sizes)				
				2 rolls	Flexible electric cable (# 12 & # 14)				
				2 sets	Cable strap for wiring harness				
				5 rolls	Rubber electrical tape				
				1 booklet	Label and warning sign sticker				
SHIELDED METAL ARC WELDING NC II									
				TOOLS					
	Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters					
					12 pcs.	Chipping Hammer			
					12 pcs.	Steel brush			
	Welding Booth	2 X 1.5	8	24	8 pcs.	Ballpeen Hammer			
	Grinding Booth	2 X 1.5	2	6	12 pcs.	Plier/tong			
	Materials/Preparation Area*	2 X 2	4	4	10 pcs.	Files-bastard cut			
	Bench work Area	1.5 X 2.5	2	8	12 pcs.	Head shield/helmet			
	Tool Room & S/M Storage Area	4 X 5	20	20	12 sets	Leather apron/jacket			
	Learning Resource Area*	5 X 9	45	45	12 sets	Leather glove, long			
	Wash Area /Comfort Room (male & female) *	2.5 X 4	10	10	2 pcs.	Safety goggle, wide vision, clear			
	Total		117	117	2 pcs.	Oxy-acetylene			
	Circulation Area**		35	35		goggles			
	Total Workshop Area		152	152	12 pcs.	Try square 300 mm. long			
					12 pcs.	Steel square 300 mm. long			
					10 pcs.	Files-half round			
					2 pcs.	Fillet gauge			
				EQUIPMENT					
				8 units	Arc Welding machine AC/DC and accessories				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
Facilities				TOOLS, EQUIPMENT & MATERIALS			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
				8 pcs.	Welding table/positioners		
				1 unit	Electrode oven		
				1 unit	Automatic gas cutting machine		
				5 units	Portable disc grinder		
				1 unit	Exhaust fan		
				1 unit	Power hacksaw		
				2 units	Anvil		
				2 units	Work bench w/ bench vice on 4 corners		
				2 sets	Oxy-acetylene/Oxy-LPG cylinder with content		
				1 unit	Pedestal /bench grinding machine		
				1 unit	Industrial fan		
				MATERIALS			
				6 boxes	Electrode 3.2mm E6011		
				6 boxes	Electrode 3.2mm E7018/6013		
				20 pcs.	Mild steel plate 10mm X 150mm X 6m		
				20 pcs.	Mild steel plate 3.2mm X 150mm X 6m		
				2 pcs.	Carbon steel pipe, schedule 40 dia. 150 X 3m		
				20 pcs.	Filter lens		
				20 pcs.	Lens clear glass		
				20 pcs.	Cut off disc 6mm X 15mm X 100mm		
				5 pcs.	Power saw blade		
				1 box	Metal chalk		
TILE SETTING NC II							
				TOOLS			
				5 pcs.	Notched trowel		
				5 pcs.	Tile cutter		
				25 pcs.	Metal tape		
				5 pcs.	Nipper		
				5 pcs.	Plumb bob		
				5 pcs.	Spirit level		
				5 pcs.	Tri-square		
				5 pcs.	Plier		
				5 pcs.	Rubber squeegee		
				5 pcs.	Rubber mallet		
				EQUIPMENT			
				5 pcs.	Angle grinder		
				25 sets	PPE		
				MATERIALS			
				25 boxes	Glazed wall tiles (20 cm x 20 cm)		
				25 boxes	Vitrified floor tiles (20 cm x 20 cm)		
				150 pcs.	Mosaic tiles (12" x 12")		
				30 kilos	Tile adhesive		

TILE SETTING NC II

Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS			
				5 pcs.	Notched trowel		
				5 pcs.	Tile cutter		
Contextual Learning		40	40	25 pcs.	Metal tape		
Laboratory / Lecture Room				5 pcs.	Nipper		
Learning Resource Center		20	20	5 pcs.	Plumb bob		
Tool Room/Storage		10	10	5 pcs.	Spirit level		
Wash room		20	20	5 pcs.	Tri-square		
Circulation area		50	50	5 pcs.	Plier		
Shop room		60	60	5 pcs.	Rubber squeegee		
				5 pcs.	Rubber mallet		
TOTAL AREA			200	EQUIPMENT			
				5 pcs.	Angle grinder		
				25 sets	PPE		
				MATERIALS			
				25 boxes	Glazed wall tiles (20 cm x 20 cm)		
				25 boxes	Vitrified floor tiles (20 cm x 20 cm)		
				150 pcs.	Mosaic tiles (12" x 12")		
				30 kilos	Tile adhesive		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION										SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
Facilities					TOOLS, EQUIPMENT & MATERIALS					Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
					Quantity	ITEM/TECHNICAL SPECIFICATION							
					1 bag	Tile plastic spacer							
					5 pcs.	Carburandum							
					25 pcs	Pencil							
					5 kilos	Tile grout							
					25 pcs.	Foam							
					10 pcs.	Tile trim							
					5 rolls	Nylon string							
					1 kilo	Cotton rags							
					5 pcs.	Water pail							

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
				Quantity	ITEM/TECHNICAL SPECIFICATION		Quantity for 20	ITEM/TECHNICAL SPECIFICATION
AGRI - FISHERY								
LANDSCAPE INSTALLATION AND MEINTENANCE NC II								
Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS				
				25	pcs	Pruning shear or secateur		
				5	pcs	Loping shear		
Laboratory/Workshop Area	-	-	100	25	pcs	Pruning saw		
Lecture Room	5.00 x 5.00	25	25	5	pcs	Bow saw		
Tool, Supply & Storage Room	3.00 X 3.00	9	9	5	pcs	Tree or pole pruner		
Learning Resource Center	2.00 x 5.00	10	10	25	pcs	Hedge trimmer		
Wash Room and Toilet	2.00 X 5.00	10	10	13	pcs	Spade		
Total (Workshop Component)			154	13	pcs	Shovel		
Circulation Area (30% of Workshop Component Space)			40	5	pcs	Hole digger		
Grand Total (Building Space)			194	5	pcs	Wheel barrow		
				5	pcs	sprayer		
				25	pcs	Mallet		
				25	pcs	Hammer		
				25	pcs	Stone rake		
				25	pcs	Leaf rake		
				5	pcs	Gun tacker		
				13	pcs	Rake		
				5	pcs	Roller		
				25	pcs	Hand trowel		
				5	pcs	Soil drencher (accessory to the garden hose)		
				25	pcs	Fork		
				2	units	Sand /Soil Sieve (standard size)		
				25	pcs	Meter tape (5 m)		
				5	pcs	Meter tape (50 m)		
				5	pcs	Ladder / Adjustable ladder (24 ft)		
				13	pcs	Mattock pick		
				EQUIPMENT				
				2	pcs	Chain saw		
				2	pcs	Telescopic shaft or power high branch pruner		
				2	pcs	Power hedge trimmer		
				1	pc	One-man soil auger		
				1	pc	Two-man soil auger		
				1	unit	Dump truck (Own or rent)		
				1	unit	Boom or power sprayer (Own or rent)		
				1	unit	Crane or boom truck		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION					SUPPLEMENTAL TO ESSENTIAL - will optimize implementation				
Facilities				TOOLS, EQUIPMENT & MATERIALS			Quantity for 20		ITEM/TECHNICAL SPECIFICATION
				Quantity	ITEM/TECHNICAL SPECIFICATION				
						(Own or rent)			
				13	pcs	Grass cutter			
				2	pcs	4.5 HP lawn mower			
				1	unit	Chipper / Shredder			
				1	unit	Mechanical compactor			
				1	unit	Blower			
				MATERIALS					
				1	bag for each type	Fertilizers			
				1	each	Pesticides			
				25	pcs	Gloves			
				25	pcs	Ear masks/Muff/plug			
				25	pcs	Goggles			
				5	pcs @ 10 meters long	Garden hose with complete accessories			
				13	pcs	ReflectORIZED vest			
				25	pcs	Overall /working clothes			
				25	pcs	Gas mask			
				25	pcs	Raincoat			
				25	pcs	Boots			
				5	pcs	Safety shoes			
				5	pcs	Safety belt			
				5	pcs	Climbing ropes			
				25	pcs	Hard hat			
				1	bag (25 kg)	Soil mix			
					Sample, 5 each.	Stakes (wooden-square/ round; steel, bamboo; plastic			
				13	units	Tree support units (G hose, wood stake, GI wire, GI nails, burlap pads, etc			
				13	units	Guy materials (GI wire, GI or wooden pegs, G hose, etc.)			
				1	bag each	Mulch (decorative stone, crushed bricks, bark chips, etc)			
				25	pcs	Safety apron			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Facilities		TOOLS, EQUIPMENT & MATERIALS	
				Quantity	ITEM/TECHNICAL SPECIFICATION		
PEST MANAGEMENT (VEGETABLE) NC II							
A. Building (permanent)				TOOLS			
Student/Trainee Working Space	2 x 2	4.00 per student	100	5 pcs	Measuring cup		
Lecture Room	7 x 5	35	35	10 pcs	Shovel		
Learning Resource Center (Library)	3 x 5	15	15	5 pcs	Light hoe		
Facilities/Equipment/ Circulation Area (30% of teaching accommodation)			39.3	25 pcs	Bolo		
Store room	4 x 4	16	16	1 pc	Harrow		
B. Experimental Land Area (Vegetable Farm)*	5.00 per student trainee	125	125	1 pc	Animal-drawn plow		
<i>* Experimental area may vary depending on availability of land and type of vegetable.</i>				1 pc	Disc plow		
				5 pcs	Cutting tools		
				5 sets	Digging tools		
				5 sets	Knife		
				5 pcs	Pruning shears		
				25 pcs	Trowel		
				25 pcs	Sprinklers		
				15 pcs	Rake		
				10 pcs	Broomstick		
				5 pcs	Container		
				25 pcs	Hat		
				2 pcs	Storage tools/cabinet		
				10 pcs	Scissors		
				5 pcs	Calculator		
				EQUIPMENT			
				5 pcs	Knapsack sprayer		
				1pc	Power sprayer		
				1unit	Mower		
				1 unit	Tractor/carabao		
				1unit	Overhead projector/LCD projector		
				5 units	Computer		
				LEARNING MATERIALS			
				5 diff. samples	vegetables		Instructional supplies and materials
				5 diff. samples	pests		Reference materials / books
				5 diff. samples	repellant and trap crops		Visual aids
				25 pcs	beneficial organisms		Procedural manuals
				25 pairs	Protective eyewear		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION					SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
Facilities				TOOLS, EQUIPMENT & MATERIALS		Quantity for 20	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION	
				Quantity	ITEM/TECHNICAL SPECIFICATION					
				25 pairs	Rubber boots					
				25 pcs	Gloves					
				25 pcs	Mask					
				5 pcs	Hearing protection					
					Catching nets					
				5 bottles	Botanical pesticides					
				5 bottles	Fungicides					
					Insecticides					
				5 pcs	Cleaning agents (e.g. detergent, soap)					
					Cloth					
				5 sacks	Mulching materials					
				3 sacks	Rice hull					
				5 pcs	Pail					
				3 rolls	Rope					
				250 pcs	Agri bags, plastic					
				5 pcs	Marking pens					
				25 pcs	Pens					
				25 pcs	Pencils					
				25 pcs	Notebooks					
				5 reams	Bond paper					
				3 dozens	Paper clips					
				1 kit	First aide supplies/ medicine					
RICE MACHINERY OPERATION NC II										
Student/Trainee Working Space	2.00 x 2.00 per student/trainee	4.00 per student	100	TOOLS						
Lecture Room	7.00 x 5.00	35	35	5	Sets of Wrench					
Learning Resource Center	3.00 x 5.00	15	15		- 36" Pipe					
Facilities/Equipment/ Circulation Area	-	-	----		Wrench					
Farm Machinery Shed	10 x 20	200	200		- 18" Pipe					
Field Area	-	10,000	10,000*		Wrench					
TOTAL AREA			10,350		- 12" Adjustable					
					Wrench					
				5	Hammer					
				5	Vice Grip					
				5	Plier					
				5	Screw Driver					
				5	Ballpeen					
					Hammer					
				5	Locking Plier					
				5	Grease Gun					
				2	Screw driver					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				TOOLS, EQUIPMENT & MATERIALS			
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION		
				1	Combination Wrench		
				1 pc	Adjustable Wrench		
				1 pc	Tachometer		
				1 pc	Shovel		
				1 pc	Wheel Barrow		
				1 pc	Allen Wrench		
				1 pc	Moisture Meter		
				1 pc	Temperature Gauge		
					Screwdriver, philip, flat		
					Pipe Wrench		
					Portable grinder		
					Portable drill		
					Arc electric welding		
					Oxy-acetylene outfit		
				EQUIPMENT			
				2	Hand Tractor (Lowland & Upland) w/ Implements*		
				2	Hydro/Turtle Tiller		
				2	Rota Tiller		
				1	4-Wheel Tractor W/ Implements*		
				2	Reaper		
				2	Stripper		
				1	Combine Harvester		
				2	Rice Thresher		
				5	Knapsack Sprayer		
				2	Centrifugal Pump		
				5	Cultivator		
				5	Fertilizer Applicator		
				5	Weeder		
				2	Pressure Gauge		
				2	Weighing Scale		
				1	Computer		
				1	LCD		
				1	Screen Projector		
				2	Tachometer		
				1	Moisture Meter		
				2	Thermometer		
				2	Transplanter		
				2	Seeder		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				TOOLS, EQUIPMENT & MATERIALS			
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
				1	Diesel engine 12.5hp		
				1	Furnace		
				1	Blower		
				1	Rice mill (Single-pass, Multi-pass)		
				1	Mechanical dryer (Batch-type, flash, Continuous)		
				MATERIALS			
				20 ltr	Fuel and Oil		
				5	Stop Watch		
				5	Steel Tape Measure		
				25	Pail		
				25	Empty Can, 20 ltrs.		
				25	Sack, 50kg		
				5	Collecting Net		
				3	Teflon Tape		
				1 qt	Grease		
				50kg	Fertilizer		
				1	Suction Hose		
				1 set	Required set of pipe and connectors		
				1	Pesticide Measuring Cup		
				1 btl	Chemical		
				100 kg	Seedlings		
				40kgs	Seeds		
				25	Envelope		
				3rms	Bond Paper		
				1	White Board		
				5	White Board		
					Pen Maker		
				1	Pad Paper		
					Diesel Fuel		
				1	Graduated Cylinder		
				1 pair	Engine Base Rice Hull		
				1 Pack	Matches		
				1 Pair	Engine Base		
				9 pcs.	Bolt w/ nut 1/2x2		
				1 pc	Pulley		
				2 pcs.	Belt		
				1 pc	Needle		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION						SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
Facilities				TOOLS, EQUIPMENT & MATERIALS					
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
					Twine				
					Rice samples/seeds for milling/drying				
					PERSONNEL PROTECTIVE EQUIPMENT				
				25	Protective Cap				
				25	Boots				
				25	Dust Mask				
				25	Hand Gloves				
				25	Earmuff				
				25	Raincoat				
				25	Long Sleeve Shirt				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION							SUPPLEMENTAL TO ESSENTIAL - will optimize implementation						
Facilities				TOOLS, EQUIPMENT & MATERIALS									
				Quantity		ITEM/TECHNICAL SPECIFICATION					Quantity for 20		ITEM/TECHNICAL SPECIFICATION
ORGANIC AGRICULTURE NC II													
A. Building (permanent)				EQUIPMENT									
	Lecture Area		40	5	sets	Desktop Computer							
	Learning resource center		10	1	unit	Printer							
	Laboratory/Practice Area		40	1	unit	LCD projector with Screen							
	Washroom (Female)		4	1	unit	Photo Copier							
	Washroom (Male)		4	RAISING ORGANIC CHICKEN									
	Stock Room		4	TOOLS									
B. Experimental Farm*				5	pcs.	Bolo							
			10,000.00 (1ha)	5	pcs.	Broomstick							
*The experimental farm should have the following areas for organic farm activities:													
	> Poultry House for 300 chicks		100	5	pcs.	Plastic Pail (10 liter. capacity)							
	> Hog House for 20 pigs		40	1	set	Carpentry tools							
	> Small Ruminants House for 5 animals		20	2	units	Knapsack sprayer							
	> Garden Plots divided into 4 plots		40	5	pcs.	Storage Container with cap,15 liter capacity							
	> Concoction and Extraction Laboratory			3	units	Weighing scale, 2 kilos capacity (2); 25 kilos capacity (1)							
	> Organic Fertilizer Preparation House			5	pcs.	Shovel							
				5	pcs.	Knives							
				2	pcs.	Sprinklers, 5 liters							
				1	units	Step ladder 6 ft.							
				1	unit	Storage tools/cabinet							
				5	pcs.	Feeding trough							
				5	pcs.	Waterer/drinker, 1 liter capacity							
				25	pcs.	Rain coat							
				5	pcs.	Plastic cup, 1 liter capacity							
				3	pcs.	Waste cans/bag							
				EQUIPMENT									
				1	unit	Booth/temporary shed							
				1	unit	Shredder							
				1	unit	Fire Extinguisher							
				1	unit	Cart							
				1	unit	Wheel barrow							
				MATERIALS									
				15	Kg.	Feeds: starter,							
				15	Kg.	Feeds: grower							
				25	pcs	21-day old chicks							
				8	Bags of 50kgs	Rice Hull							
				1	Bag of 50kg. Soil	Sand							
				50	meter	Net, #10 mesh size							

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION			
				1	unit	First Aid Kit						
				15	pcs.	Apron						
				5	pcs.	Chopping Board						
				10	pcs.	Feeding trough						
				5	liters	Various Concoctions/Extracts						
				15	Kg.	Feeds: finisher						
				25	pcs	60-day old chicken						
				1	Bag of 50kg. Soil	Farm Soil						
				50	pcs	Bamboo poles						
				2	Kg.	Monofilament Nylon#150						
				1	pc.	Water Container Drum						
				10	pcs.	Rags						
				10	pcs.	Waterer						
				1	unit	Feed Cart						
				PRODUCE ORGANIC VEGETABLES								
				TOOLS								
				5	pc.	Bolo						
				5	pc.	Digging Blade/Bar						
				5	pc.	Spading Fork						
				2	set	Hoe						
				5	unit	Rake						
				5	pc.	Shovel						
				2	unit	Weighing scale, 2 kilos capacity (1); 25 kilos capacity (1)						
				3	pcs.	Measuring cup; 1 liter capacity						
				5	pcs.	Pruning Shear						
				5	pcs.	Petri Dish						
				2	units	Spike Tooth Harrow						
				5	pcs.	Sprinklers, 5 liters						
				1	units	Step ladder 6 ft.						
				10	units	Holer, 4" diameter						
				5	pcs.	Trimming knife						
				1	set.	Carpentry tools						
				5	pcs.	Knapsack sprayer						
				5	pcs	Plastic cup, 1 liter capacity						
				3	pcs.	Waste cans/bag						
				2	set	Plow						
				1	Pc.	Calculator						
				EQUIPMENT								
				1	unit	Booth/temporary shed						
				1	unit	Wheel barrow						
				1	unit	Carbonizer						

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
				1	pc.	Soil Thermometer				
				1	unit	Fire Extinguisher				
				1	unit	Shredder				
				1	unit	Cart				
				1	unit	Portable Soil Analyser Kit				
				1	unit	PH meter				
				MATERIALS						
				5	Bag of 50 kg.	Basal Organic Fertilizer				
				5	liter	Foliar Organic Fertilizer				
				6	pc	Seedling Tray, plastic				
				2	roll	Plastic twine				
				10	Pack	Assorted Vegetable Seedlings				
				1	unit	First Aid Kit				
				10	pcs.	Rags				
				5	pcs.	Strainer, Nylon Screen, fine mesh				
				5	Bags of 50 kg.	Carbonized Rice Hull				
				5	liters	Various Concoctions/Extracts				
				6	pcs	Seedling Tray, wooden				
				10	pcs	Bamboo poles				
				1	pc.	Water Container Drum				
				15	pcs.	Apron				
				10	pcs.	Stone (weights) ½ kilos				
				10	pcs.	Sacks				
				MANUFACTURE/PRODUCE ORGANIC FERTILIZER						
				TOOLS						
				5	pcs.	Spade				
				5	pcs.	Spading Fork				
				2	sets	Hoe				
				5	pcs.	Shovel				
				2	units	Weighing scale, 2 kilos capacity (1); 25 kilos capacity (1)				
				3	pcs	Measuring cup; 1 liter capacity				
				5	pcs.	Sprinklers, 5 liters				
				1	set.	Carpentry tools				
				5	units	Rake				
				5	pcs.	Knapsack sprayer				
				5	pcs	Plastic cup, 1 liter capacity				
				3	pcs.	Waste cans/bag				
				EQUIPMENT						
				1	unit	Booth/temporary shed				
				1	unit	Shredder				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
				1	unit	Carbonizer				
				1	pc.	Moisture meter				
				1	pc.	Soil Thermometer				
				1	unit	Fire Extinguisher				
				1	unit	Wheel barrow				
				1	unit	Cart				
				1	unit	Portable Soil Analyzer Kit				
				1	unit	PH meter				
				3	set	Vermitea aerator, 60 liters capacity, each				
				MATERIALS						
				1	Bag of 50 kg.	Basal Organic Fertilizer, sample				
				2	liter	Foliar Organic Fertilizer, sample				
				100	liter	Molasses				
				50	kg	Dry Leaves				
				50	kg	Pig Manure				
				100	kg	Carbonized Rice Hull				
				20	meter	Plastic Sheet				
				25	pcs.	Empty bags, 50 kg capacity				
				1	unit	First Aid Kit				
				15	pcs.	Apron				
				1	Bags of 50 kg.	Carbonized Rice Hull, sample				
				10	liters	Various Concoctions/Extracts				
				50	kg	Rice straw				
				50	kg	Chicken Dunk				
				50	kg	Cow manure				
				50	kg	Rice Bran (D2)				
				10	pcs.	Used Tires				
				5	pcs.	Plastic Pail, 15 liters capacity				
				1	pc.	Water Container Drum				
				10	pcs.	Rags				
				PRODUCE ORGANIC CONCOCTIONS/EXTRACTS						
				TOOLS						
				10	pcs.	Measuring Cup (with calibration, 1 liter capacity)				
				10	pcs.	Plastic Cup (1 liter capacity)				
				5	pcs.	Syringe, Plastic, 30 ml capacity				
				25	pcs.	Bamboo Container/ Plastic container/wooden box for collecting microbes				
				25	pcs.	Slicing knife				
				5	pcs.	Pannel(imbudo)				
				2	set.	Carpentry tools				
				2	pcs.	Knapsack sprayer				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation		
				Facilities			Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20
				10	pcs.	Bamboo/wooden ladle			
				5	pcs.	Plastic Basin, 10 liters capacity			
				25	pcs.	Chopping Board			
				EQUIPMENT					
				1	unit	Booth/temporary shed			
				1	unit	Shredder			
				1	unit	Wheel barrow			
				1	unit	Cart			
				1	unit	Carbonizer			
				1	unit	Fire Extinguisher			
				1	pcs.	Meat Grinder, small			
				1	unit	Portable Soil Analyzer Kit			
				1	unit	PH meter			
				3	set	Vermitea aerator, 60 liters capacity, each			
				5	pcs.	Thermometer			
				1	pc.	Moisture meter			
				MATERIALS					
				100	liter	Molasses			
				8	liter	Various Concoctions/Extracts for at least 1 liter per sample			
				150	pcs.	Weight (clean stone 100grams each)			
				50	pcs.	Weight (empty plastic container 250 to 500 ml capacity)			
				25	pcs.	Plastic strainer, fine mesh, 1ft x 1ft square			
				25	pcs.	Plastic strainer, small mesh, 1ft x 1 ft square			
				50	pcs.	Empty Plastic Container, 1 liter capacity			
				50	pcs.	Empty Plastic Container, 5 liter capacity			
				2	roll	Plastic Tie box			
				1	unit	First Aid Kit			
				15	pcs.	Apron			
				25	pcs.	Plastic Container, 15 liters capacity			
				10	pcs.	Plastic Container, 60 liters capacity			
				5	meter	Plastic Hose, 5mm dia.			
				3	pcs.	Waste cans/bag			
				10	meter	Plastic Sheet			
				25	pcs.	Manila Paper			
				5	box	Rubber Bond, Large			
				5	pcs.	Marking Pen			
				5	pcs.	Masking Tape, medium			
				1	pc.	Water Container Drum			
				10	pcs.	Rags			
				RAISE ORGANIC HOGS					
				TOOLS					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
				5	pcs.	Bolo				
				5	pcs.	Broomstick				
				5	pcs.	Plastic Pail (10 liter. capacity)				
				1	set	Carpentry tools				
				2	unit	Knapsack sprayer				
				5	pc.	Storage Container with cap,15 liter capacity				
				2	unit	Weighing scale, 10 kilos capacity (1); 150 kilos capacity (1)				
				5	pcs.	Shovel				
				2	pcs.	Sprinklers, 5 liters				
				1	unit	Step ladder 6 ft.				
				1	unit	Storage tools/cabinet				
				5	pc	Shovel				
				5	pc	Digging Bar/Blade				
				5	pc	Plastic cup, 1 liter capacity				
				3	pc.	Waste cans/bag				
				EQUIPMENT						
				1	unit	Booth/temporary shed				
				1	unit	Shredder				
				1	unit	Fire Extinguisher				
				1	unit	Cart				
				1	unit	Wheel barrow				
				MATERIALS						
				15	kg	Hog Feeds: starter				
				15	kg	Hog Feeds: grower				
				5	head	45-day old piglet				
				8	Bag of 50kgs	Rice Hull				
				1	Bag of 50kgs	Sand				
				10	liter	Molasses				
				1	unit	First Aid Kit				
				15	pcs.	Apron				
				5	liter	Various Concoctions/Extracts				
				15	kg	Hog Feeds: finisher				
				5	head	80-day old pig				
				1	Bag of 50 kgs Soil	Farm Soil				
				50	pc	Bamboo poles				
				2	kg	Monofilament Nylon#150				
				1	pc.	Water Container Drum				
				10	pcs.	Rags				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation		
				Quantity		ITEM/TECHNICAL SPECIFICATION	Quantity for 20		ITEM/TECHNICAL SPECIFICATION
				RAISE ORGANIC RUMINANTS					
				TOOLS					
				5	pcs.	Bolo			
				5	pcs.	Broomstick			
				5	pcs.	Plastic Pail (10 liter. capacity)			
				1	set	Carpentry tools			
				2	unit	Knapsack sprayer			
				5	pc.	Storage Container with liter capacity			
				2	unit	Weighing scale, 10 kilos capacity (1); 100 kilos capacity (1)			
				5	pc.	Shovel			
				2	pcs.	Sprinklers, 5 liters			
				1	unit	Step ladder 6 ft.			
				1	unit	Storage tools/cabinet			
				5	pc	Shovel			
				5	pc	Digging Bar/Blade			
				5	pc	Plastic cup, 1 liter capacity			
				3	pc.	Waste cans/bag			
				EQUIPMENT					
				1	unit	Booth/temporary shed			
				1	unit	Shredder			
				1	unit	Fire Extinguisher			
				1	unit	Cart			
				1	unit	Wheel barrow			
				MATERIALS			TRAINING MATERIALS		
				15	kg	Goat Feeds: starter, grower, finisher			> Brochures
				15	kg	Goat Feeds: grower			> Visual aids
				4	head	45-day old Goat			> Reference manuals
				8	Bags of 50kgs	Rice Hull			> Procedural manuals
				1	Bag of 50kgs	Sand			> Instructional supplies and materials
				1	roll	Plastic sheet			> Reference materials/books/VPM
				1	unit	First Aid Kit			> Data (result of soil analysis)
				15	pcs.	Apron			> Soil samples
				5	liter	Various Concoctions/Extracts			> Reference materials-PNS (livestock)
				15	kg	Goat Feeds: finisher			- animal welfare
				4	head	80-day old Goat			- GAHP
				1	Bag of 50 kgs	Farm Soil			
				50	pc	Bamboo poles			
				2	kg	Monofilament Nylon#150			
				1	pc.	Water Container Drum			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation		
				Quantity	ITEM/TECHNICAL SPECIFICATION		Quantity for 20	ITEM/TECHNICAL SPECIFICATION	
				10	pcs.	Rags			
						PERSONNEL PROTECTIVE EQUIPMENT			
						> Goggles			
						> Long Gloves/Arms Length			
						> Face Mask # 30			
						> Overall Suit			
						> Hair net			
						> Safety Shoes			
						> Rubber Boots			
						> wide Brimmed Hats			
						> Long Sleeves			
						> Long Pants			

ANIMAL PRODUCTION NC II

Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	TOOLS		Quantity for 20	ITEM/TECHNICAL SPECIFICATION
				Quantity	ITEM/TECHNICAL SPECIFICATION		
				3			Electric lamps
				3			Pail
Building (permanent)	13 X 15	195	195	3			Feed scoop
Student/Trainee Working Space	2 X 2 per student	4.00 per student	100	30			Syringe and needles
Lecture Room	7 x 5	35	35	1			Debeaker
Learning Resource Center	3 x 5	15	15	1			Knapsack sprayer
Facilities/Equipment/ Circulation Area				3			Egg grader
				1			Hover
				3			Chick guard
				1			Curtains
				1			Portable heater
				3			Plastic feeders, 5-10 kgs
				5			AI kit and other paraphernalia
				3			Weighing scale (1000 kg. cap.)
				5			Tattoo pliers, hammer
							Syringes (5 to 20ml cap.)
				5			Shovel, wheel barrow
				15			Mineral boxes, waterer, feeding trough
				10			Milking pails
				5			Milk pasteurizer
				5			Milk homogenizer
				5			Ear tags, branding iron
							EQUIPMENT
				1			Generator
				1			Heater
				1			Weighing scale
				1			Wheel barrow
				1			Feed bin

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION				
				1	Feed cart						
				1	Infrared gas brooder						
				30	Fabricated layer cages						
				1	Power Sprayer						
MODELS/ACTUAL OBJECTS											
					Breed/strain/ hybrid:						
					Broiler strains:						
				60	§ Anak						
					§ Pilch-de-kalb						
					§ Lohman						
					§ Starbro						
					§ Arbor acre						
					§ Avian Peterson						
					§ Cobb						
					Strains of layers:						
					§ Babcock						
				30	§ Dekalb						
					§ H & N						
					§ Hi-sex white						
					§ Kimber						
					§ Starcross						
					§ Lohman LSL						
				30	Breeds of egg-type ducks:						
					§ The Phil. Mallard						
					§ Khaki Campbell						
					§ Indian Runner						
					§ Tsaiya						
					§ Chery Valley Hybrid						
					Breeds of Quail						
					§ Japanese Seattle						
					§ Japanese Taiwan						
				30	§ Silver						
				30	Layer eggs classification:						
					§ XL and jumbo (62 grams up)						
					§ Large (55-61 grams)						
					§ Medium (48-54 grams)						
					§ Small (41 –47 grams)						
					§ Very small/ peewee (below 41 grams)						
				30	Ducks and quail eggs:						
				30	§ Good eggs – this includes cleaned and free from any stain/dirt						

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation							
				TOOLS, EQUIPMENT & MATERIALS				Quantity for 20		ITEM/TECHNICAL SPECIFICATION	
Facilities				Quantity	ITEM/TECHNICAL SPECIFICATION						
					§ Reject eggs – this includes cracked, off-shaped, off-sized, heavily/partly soiled and wet eggs						
					Processed eggs:						
					§ Salted eggs						
					§ “Balut” eggs						
					§ Pickled eggs						
					§ Century eggs						
				1	o Dairy Cattle:						
					§ Holstein Friesian						
					§ Sahiwal						
					§ Jersey						
					§ Red Sindhi						
					§ Crosses						
					o Beef Cattle:						
				1	§ Native Strain						
					§ Brahman						
					§ Hindu-Brazil						
					§ Simbrah						
					§ Crosses						
					o Buffaloes						
				1	§ Native Carabaos						
				30	§ Indian Murrah Buffaloes						
					§ Bulgarian Murrah						
					§ Nili Ravi						
					§ American Buffaloes						
					§ Cambodian Buffaloes						
					· Crosses						
				MATERIALS							
				10	Plastic drinking jars- ¼, ½, 1 gallon cap.						
				10	Chicks size feeders						
				1	Welded wire						
				1	Plastic poultry wire						
				2	PVC pipe						
				10	Feeding troughs (local materials-bamboo or PVC pipe)						
				10	Drinking trough						
				10	Plastic waterers						
				10	Sacks						
				10	Nests						
				1	Old tire						
				5	Aluminum sheets						

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION		
				1	Plain GI sheets				
				2	Lawanit				
				5	Hard card boards				
				5	Plywood				
					Old newspaper				
					Saw dust				
					Rice hulls				
					· Chicks booster – from 1 day to 2 weeks old				
					· Starter mash – 3-4 weeks old				
					· Finisher mash – 5 weeks old until market age				
					Egg trays				
					· Plastic egg trays (30 pcs./60 pcs. Capacity)				
					· Cartoon egg trays				
					Egg cart				
					Egg boxes				
					Medicines (vitamins and anti-biotics)				
					Dewormer				
					Vaccines				
				PPE:					
					· Dust coats				
					· Mask				
					· Hand gloves				
					· Boots				
					· Rain coats				
					· Fire extinguisher				
					· Foot baths				
					Learning Materials				
					· Production records				
					§ Rearing flock records				
					· Laying flock records				
					· Financial records				
					· Inventory records				
					· Physical records:				
					v Brooding and growing records				
					v Laying flock production records				
					· Financial records:				
					v Value of production and disposal				
					v Other sources of income				
					v Farm expenses				
ARTIFICIAL INSEMINATION (SWINE) NC II									
	Based on a class size of 12 students:				TOOLS				
	> Collecting pen		2 x 3	6	100 pcs.	Catheters			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity	ITEM/TECHNICAL SPECIFICATION		Quantity for 20	ITEM/TECHNICAL SPECIFICATION		
> Boar pen	3 x 4 per animal x 6		72	1 set	First aid kit					
> Sow/gilt stall	2 x 0.65 x5 animal		6.6	12 pcs.	Training bag					
> Gilt's pen	1 .1 sq.m. per head x 5		5.5	1	Shovel					
> Lecture Room	7.00 x 5.00		35	1	sandbag					
> AI Laboratory room	6 x 8		48	EQUIPMENT						
> Storage room	4 x 3		12	4	Microscope					
> Learning resource center	3 x 4		12	12 sets	Personal Protective Paraphernalia(scrub suits, powder-free vinyl gloves, rubber boots)					
				12	Laboratory gown					
				1	Vehicle					
				1	Camera					
				1	Power sprayer					
				1	Generator set					
				1	Refrigerator (16 to 17 degree C)					
				1	Fire extinguisher					
				1	Set Audio visuals with screen					
				1	White board					
				12 sets	Chairs and tables					
				2 Units	Computer					
				1	Printer					
				1	Photocopier					
				1 unit	Dryer-Sterilizer					
				1	Semen transport box					
				MATERIALS						
				50 bottles	Semen bottles					
				1pc	Female Reproductive Organ Specimens					
				2 sets	Pail and dipper					
				10 m	Hose					
				6 bottles	Isopropyl alcohol (70%)					
				6 pcs.	Germicidal Soap					
				6 packs	Paper towels					
				5 boxes	Glass slides					
				5 boxes	Cover slips					
				2	Trash can					
				50 pcs.	Disposal waste bags					
				2 pcs.	Broomstick					
				2 pcs.	Brooms					
				6 pcs.	Brush					
				6	Board marker					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
Facilities			TOOLS, EQUIPMENT & MATERIALS		Quantity for 20	ITEM/TECHNICAL SPECIFICATION			
			Quantity	ITEM/TECHNICAL SPECIFICATION					
				2 rolls	MaskingTapes				
				12 pcs	Pencil/ballpen				
				5 reams	Bond paper				
				2 spray bottles	Pheromones				
				2 bottles	Semen (for the snout for heat detection)				
				100 bottles	Semen (for AI)				
				4 pcs	Pre-warmed collecting cup				
				1 box	Semen filter				
				1 box	Rubber band				
				30 L.	Distilled water				
				1 box	Plastic gloves				
				12 pcs.	Nutrient agar plates				
				2 bottles	Lubricant				
				4	Laboratory thermometer				
					Ice				
					Damp cloth/ used newspaper				
				6 rolls	Tissue paper				
				MODELS/ACTUAL OBJECTS					
				6	Practice animals (boar)				
				5	Practice animals (Sow/gilt)				
				1	Dummy sow				
				LEARNING MATERIALS					
				12 pcs	Training manuals				
				1	Animal charts				
				1	Animal breeds				
				1	Video materials				
				12 pcs	Forms(animal information sheets, sow card, boar card)				
ARTIFICIAL INSEMINATION (LARGE RUMINANTS) NC II									
Working Corral	30 x 30		900	TOOLS					
Animal House	4 x 2 per animal x12		96		12	AI Kit			
Lecture Room	7x 5		35		24	Catheters			
Laboratory room	6 x 8		48		1 pc.	Bull lead			
Storage room	4 x 3		12		1 pc.	Nail cutter			
Locker room/ Dressing area					1 set	First aid kit			
o Female	4x3		12		12 pcs.	Training bag			
o Male	4x3		12		1	Shovel			
					1	Wheel borrow			
				EQUIPMENT					
					1	Liquid Nitrogen Tank			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Facilities		TOOLS, EQUIPMENT & MATERIALS			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION		
					(Dewar) with 33 L capacity (Mother tank)				
				1	Liquid Nitrogen Tank				
					With 3 L capacity (field tank)				
				12 sets	Personal Protective Paraphernalia (boots, coverall/ apron, surgical and shoulder-length plastic gloves)				
				1	Vehicle (optional)				
				1	Camera				
				1	Microscope				
				1	Power sprayer (optional)				
				1	Gen set (optional)				
				1	Freezer				
				1	Fire extinguisher				
				1	Set Audio visuals with screen				
				1	White board				
				12 sets	Chairs and tables				
				2 Units	Computer				
				1	Printer				
				1	Photocopier (optional)				
				MATERIALS					
				1,200 pcs	Semen straws				
				1,200 pcs	Al sheaths				
				6 pcs	Female Reproductive Organ Specimens				
				120 m.	Rope				
				1L	Iodine (10% Povidone)				
				2 sets	Pail and dipper				
				10 m	Hose				
				12 bottles	Ethyl alcohol (60%)				
				12 bottles	Isopropyl alcohol (70%)				
				12 pcs.	Germicidal Soap				
				12 pcs.	Disposable towel				
				1pcs.	Flash lights				
				1 box	Glass slides				
				1 box	Cover slips				
				2	Trash can				
				50 pcs.	Disposal waste bags				
				12 packs	Paper towels				
				2 pcs.	Broomstick				
				1 box	Surgical gloves				
				1 box	Shoulder-length gloves				
				2 pcs.	Brooms				
				6 pcs.	Brush				
				12 sheets	Manila paper				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION		
				6 pcs	Board marker				
				2 rolls	Tapes				
				12 pcs	Pencil				
				1 ream	Bond paper				
				TRAINING MATERIALS					
				12 pcs	· Training manuals				
				1 pc	· Animal charts				
				1 pc	· Animal breeds				
				1 lot	· Video materials				
				MODELS/ACTUAL OBJECTS					
				12	Practice animals				
SLAUGHTERING OPERATION NC II									
Required training facilities for training institution that will offer Slaughtering Operations NC II for hog/pig/swine only, based on a class intake of 15 students/trainees.									
Student/Trainee Lecture room	30		30	TOOLS					
Slaughter house	26		26	15 pcs	Work knife		2 pcs	Hooves remover *	
Holding Pen							15 units	Protective hand and arm covering *	
Loading Bay	9		9	2 pcs	Stick knife		15 units	Ear plugs/muffs *	
	6		6	15 pcs	Flaying knife				
Restroom/Wash/	6		6	15 pcs	Scabbard				
Locker/Changing Room	6		6	15 pcs	Sharpening steel				
Waste (water) management facilities				15 pcs	Sharpening stone				
TOTAL AREA	83		83	EQUIPMENT					
				1 unit	Stunner				
				1 unit	Electric hoist				
				1 unit	Overhead rails roller				
				10 pcs	Gambrel				
				1 unit	Blood trough				
				1 unit	Scalding vat/tank				
				1 unit	Dehairing machine/table				
				1 unit	Inspection tables				
				1 unit	Paunch truck				
				1 unit	Weighing scale				
				2 sets	Spray Hose with rack				
				4 units	Sterilizers				
				1 unit	Restraining box				
				1 unit	Condemnation receptacle				
				1 unit	Weighing scale				
				LIVESTOCK					
				150	Pig				
				MATERIALS					
					Stunning cartridge				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION						SUPPLEMENTAL TO ESSENTIAL - will optimize implementation				
Facilities				TOOLS, EQUIPMENT & MATERIALS		Quantity for 20	ITEM/TECHNICAL SPECIFICATION			
				Quantity	ITEM/TECHNICAL SPECIFICATION					
							Plastic pail			
							Abaca /Plastic twine			
				PERSONNEL PROTECTIVE EQUIPMENT						
					15 units		Coat and apron			
					15 units		Protective head and hair covering			
					15 units		Safety shoes or waterproof footwear			
Required training facilities for training institution that will offer Slaughtering Operations NC for cattle/ox only, based on a class intake of 15 students/trainees.										
	Student/Trainee Lecture room	30		30	TOOLS			PPE:		
	Slaughter house			43		15 pcs		15 units	Protective hand and arm covering *	
	Holding Pen			30		2 pcs		15 units		
	Loading Bay	6		6		2 pcs	Hooves remover *			
	Restroom/Wash/	6		6		15 pcs	Flaying knife			
	Locker/Changing Room	6		6		15 pcs	Scabbard			
	Waste (water) management facilities					15 pcs	Sharpening steel			
	TOTAL AREA	91		91		15 pcs	Sharpening stone			
Required training facilities for training institution that will offer Slaughtering operations NC II for both cattle/ox and hog/pig/swine, based on a class intake of 15 students/trainees.										
				EQUIPMENT						
	Student/Trainee Lecture room	30		30		1 unit	Stunner			
	Slaughter house	70		70		1 unit	Hoist			
	Holding Pen	40		40		1 unit	Overhead rails			
	Loading Bay	6		6		5 pcs	Gambrels			
	Restroom/Wash/	6		6		1 pc	Spreaders			
	Locker/Changing Room	6		6		1 unit	Dehiding platform / cradle			
	Waste (water) management facilities					1 unit	Blood trough			
	TOTAL AREA	158		158		20 pcs	Meat hook with rollers *			
						1 unit	Splitting axe/saw			
						5 pcs	Paunch truck			
						5 pcs	Viscera truck			
						5 pcs	Inspection table			
						1 set	Hose			
						6 units	Sterilizer			
						1 unit	Restraining box			
						1 unit	Condemnation receptacle			
						1 unit	Weighing scale			
				LIVESTOCK						
						75	Cattle			
				MATERIALS						
							Stunning cartridge			
							Plastic pail			
							Abaca / Plastic twine			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				TOOLS, EQUIPMENT & MATERIALS			SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
				Facilities		Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20
				PERSONNEL PROTECTIVE EQUIPMENT				
				15 units		Coat and apron		
				15 units		Protective head and hair covering		
				15 units		Safety shoes or waterproof footwear		
HORTICULTURE NC II								
				TOOLS				
	Space Requirement	Size in Meters	Area in Sq. Meters	25	pcs	Bolos		
			Total Area in Sq. Meters	10	pcs	Broomstick		
	A. Building (permanent)		170.3	5	pcs	Calculator		
	Student/Trainee Working Space	2 x 2 per student/trainee	4.00 per student	100	5	pcs	Container	
	Learning Resource Center	3 x 5	15	15	5	sets	Cutting tools	
	Facilities/Equipment/Circulation (30% of tea			39.3	5	sets	Digging tools	
	Store Room	4 x 4	16	16	2	pcs	Drying meter	
	B. Experimental Land Area	5 sq m /trainee	125	125	10	pcs	Dulos	
				5	pcs	Fruit crate		
				5	sets	Harvesting tools		
				25	pcs	Hat		
				5	pcs	Knapsack sprayer		
				5	sets	Knife		
				5	pcs	Light hoe		
				2	pcs	Moisture meter		
				2	pcs	Petri-dish		
				3	pcs	pH meter		
				5	pcs	Pick mattock		
				5	pcs	Picking knife		
				1	pc.	Plow		
				2	sets	Plumbing tools		
				5	sets	Post-Harvest treatment tools		
				25	pcs	Protective coat		
				25	pcs	Protective gadgets		
				5	pcs	Pruning sheers		
				5	pcs	Rake		
				10	pcs	Scissors		
				10	pcs	Shovel		
				15	pcs	Sprinklers		
				2	pcs	Step ladder		
				2	pcs	Storage tools/cabinet		
				25	pcs	Transplanting tools		
				25	pcs	Trowel		
				EQUIPMENT				

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation						
				Facilities				TOOLS, EQUIPMENT & MATERIALS		Quantity for 20
				Quantity	ITEM/TECHNICAL SPECIFICATION					
				2	Booth/temporary shed					
				5	Cart (Kariton & paragus)					
				2	Comb-tooth harrow					
				1	Computer					
				5	Crates					
				1	Drying oven					
				1	Greenhouse/nursery					
				1	Harvesting equipment					
				1	Irrigation system (sprinkler, mist/drip irrigation)					
				1	Mower (grass cutter)					
				1	Over head projector (OHP)					
				1	Portable chain saw					
				1	Post-Harvest treatment equipment					
				1	Power sprayer					
				1	Rotavator					
				1	Service vehicle (optional)					
				1	Sorting equipment					
				2	Spike tooth harrow					
				1	Surface irrigation system					
				1	Tractor/Carabao					
				MATERIALS				TRAINING MATERIALS		
				250 pcs.	· Agri bags, plastic		25	· Brochures		
				500 pcs.	· Bamboo stick		2	· Instructional supplies & materials		
				5 pcs.	· Basket		2	· Visual aids		
				5 rims	· Bond paper		5	· Reference materials/Books (Kinds of Tropical Fruits)		
				5 pcs.	· Catching nets		5	· Reference manuals (first aide kit with reference manua		
				3 doz.	· Clips		5	· Data (Data on result of soil analysis)		
				5 sacks	· Coconut dust		5	· Procedural manuals		
				5 sacks	· Compost		5	· Soil samples analysis		
				1 sack	· Fertilizers					
				1 kit	· First aide supplies/ medicine					
				5 bottles	· Flower inducer					
				5 bottles	· Fungicides					
				25 pairs	· Gloves					
				5 sacks	· Growing media (garden soil, sewed sand, compost, soil, manure and sawdust/rice)					
				5 pcs.	· Killing bottles					
				5 pcs.	· Marking pens					
				25 pcs.	· Masks					
				5 sacks	· Mulching material					
				25 m	· Hair nets					
					· Packaging materials, assorted					

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION		
				5	· Pail				
				5 rims	· Paper/bond				
				25	· Pencil				
				25	· Pens				
				5 bottles	· Pesticides/ Insecticides				
				5 pieces	· Pieces of cloth				
				100	· Plastic bag				
				1 set	· Plumbing supplies				
				250	· Pots				
				5 sacks	· Propagating media (garden soil, sawdust, sand, composed, coconut coir)				
				3 sacks	· Rice hull				
				3 rolls	· Rope, (small, med. Large)				
				3 boxes	· Rubber band				
				25 pairs	· Rubber boots				
					· Rubber knots				
				25 sacks	· Sacks				
					· Sample of matured vegetable crops				
				5 boxes	· Seed box				
					· Seedlings, assorted				
				2 packs per crop	· Seeds				
				5	· Soil auger				
				5 rolls	· String				
				5 bottles	· Tetrazolium chemical				
					· Transplanting supplies				
				5 pcs.	· Detergent, liquid and powder soap				
				5 pcs.	· Brush				
FOOD/FISH PROCESSING NC II				TOOLS					
	Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters	5	Weighing scales (10 kg. capacity)			
					5	Dietetic scales (1 kg. capacity)			
	A. Building (permanent)				15	Pairing knives			
	Laboratory area	6 x10	60	60	10	Peelers			
	Tool room & S/M storage area	4 x 5	20	20	5	Measuring spoons, sets			
	Learning resource area	5 x 6	30	30	5	Measuring cups (solid)			
	Wash area/comfort room (male & female)	2.5 x 4	10	10	5	Measuring cups (liquid)			
	Total			120	2	Clocks/timer			
	Facilities/Equipment/Circulation (30% of teaching accommodation)			40	15	Mixing bowls, stainless steel			
	B. Experimental Land Area			n/a	10	Hard plastic chopping boards			
	Total workshop area			160	5	Dial thermometers			
					5	Osterizer			
					5	Jar liter			

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION

Facilities				TOOLS, EQUIPMENT & MATERIALS		SUPPLEMENTAL TO ESSENTIAL - will optimize implementation					
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION				
				1	Food processor, set						
				5	Wire baskets						
				15	Casseroles stainless steel						
				10	Saucepan, stainless steel						
				15	Spoons, wooden						
				10	Spoon, basting						
				4	Paddles, wooden						
				10	Food tongs						
				2	Steamer						
				5	Soaking container						
				5	Fermented containers						
				20	Utility trays						
				15	Colanders, stainless steel						
				EQUIPMENT							
				1	Smoke house						
				1	Chiller						
				1	Refrigerator						
				1	Freezer						
				5	Stoves						
				1	Jack lift						
				1	Trolley						
				1	Wheeler						
				1	Poly/temperature sealer						
				1	Cap sealer						
				1	Pressure canner						
				1	Pressure cooker						
				1	Cap seal						
				1	Oven						
				2	Steam-jacketed kettle						
				5	Smoking trays						
				1	Meat grinder						
				1	Stuffer/linker						
				1	Silent cutter						
				2	Brix refractometers (0-20° brix)						
				1	Salinometer						
				2	Electronic scales						
				1	Consistometer/viscosimeter						
				1	Vacuum pack machine						
				1	Laboratory scale cabinet drier or forced draft oven						
				1	Headspace gauge						
				MATERIALS							
				A. Food supplies							

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation			
Facilities				TOOLS, EQUIPMENT & MATERIALS			
				Quantity	ITEM/TECHNICAL SPECIFICATION	Quantity for 20	ITEM/TECHNICAL SPECIFICATION
Learning Resource Center	3 x 5	15	15	25 pcs	Stainless hook or ganse		
Facilities/Equipment/ Circulation Area			39.3	1 pc	Pressurized or ordinary hose		
Store Room	4 x 4	16	16	EQUIPMENT			
B.Fishport/Wharf *	200 x 100	20,000	20,000	1 set	Conveyor		
Total Area			20,341	5 units	Cartwheel		
				5 units	Classifying table		
				5 units	Weighing scale		
				1 unit	Foot operated drinking fountain		
				25 sets	Personal Protective Equipment		
					· Apron		
					· Gloves		
					· Rubber boots/ Winter boots		
					· Head gears		
					· Winter jacket		
					· Hard hat		
					· Long pants		
					· White shirts		
				MATERIALS			
				25 pcs	Soap		
				5 liters	Chlorine		

DETERMINATION OF RESOURCES (TECH-VOC TRACK)

ESSENTIAL TO SPECIALIZATION				SUPPLEMENTAL TO ESSENTIAL - will optimize implementation	
Facilities		TOOLS, EQUIPMENT & MATERIALS		Quantity for 20	ITEM/TECHNICAL SPECIFICATION
		Quantity	ITEM/TECHNICAL SPECIFICATION		
<p>The workshop or training for any course is dictated by three important factors: (a) the nature and type of course to be conducted; (b) the number of trainees and (c) the type and size of equipment and machines to be installed or used.</p> <p>Appropriate consideration should be given in providing and allocating work space, communications facilities, and the usual workplace amenities to ensure a proper learning environment. Where applicable, training shall be held or conducted in learning facilities in accordance with generally accepted industry standards and practice.</p>		<p>The quantity of tools and equipment to be used for the conduct of training for this qualification shall depend on the number of students, size of the class, and/or modality of training. The most important consideration is to make sure that tools and equipment are adequately provided to all trainees when needed. The actual list of tools, equipment, machines, supplies and other materials to be used shall be identified and detailed in the Competency Based Curriculum (CBC) to be submitted by the TVET provider when registering a course or training program with TESDA.</p>			
		<p>Due to the fast-changing nature of the Information and Communications Technology (ICT) sector, TVET providers are reminded to use and provide their trainees with the latest technology tools, equipment and materials where appropriate and applicable.</p>			
		<p>In cases where there are specialized tools, equipment and facilities that are not generally considered standard requirements or not absolute requisites for training, the industry working group or TESDA may provide guidelines or specific advice on such matters.</p>			
<p>THE REQUIREMENTS FOR THE TECHVOC SPECIALIZATIONS SHALL BE SUBJECTED FOR VALIDATION BY THE PRACTITIONERS</p>					