



CONSTRUCTION TRADES TECHNOLOGY DEPARTMENT

3 YEAR Strategic Plan

Institutional Strategic Master Plan Goals/Initiatives (2023-2026)

1. ISMP-Advancing Workforce Development and Training
2. ISMP-Fostering 100% Student-Centered Success
3. ISMP-Leveraging Transformational Engagement and Governance
4. ISMP-Optimizing Resources
5. ISMP-Modernizing and Expanding Infrastructure and Technology

Department Objectives

1. Review and revise Construction Department curriculum for programs and courses.
2. Maintain and ensure that all programs articulate to National Standards.
3. Prepare budgets to update and expand Department teaching supplies, equipment, and materials.

Approved:
Revised:

Timeline 2023-2026

ISMP Goal #	Department Objective	Annual Program Budget Goal	Task	Task	Task
			Year 1	Year 2	Year 3
1	<ul style="list-style-type: none"> Review Post-Secondary course documents more than 2 years old and revise as necessary. Update all outdated Curriculum 	<ul style="list-style-type: none"> Prepare a 3-year growth budget for General Fund appropriations 	<ul style="list-style-type: none"> Hold Advisory Committee and Department meetings to ensure program is meeting industry needs. Recruit new advisory committee members to reflect changes in programs 	<ul style="list-style-type: none"> Review Secondary Programs to ensure Articulation with Post-Secondary programs is on target with Industry Standards and Apprenticeship Training. Coordinate w DOL for Apprenticeship funding 	<ul style="list-style-type: none"> Full compliance of revisions. Implementation of revisions, both programmatic and course.
2	<ul style="list-style-type: none"> Continue work experience coordination that corresponds to apprenticeship programs. Increase overall student participation in Work Experience Program for secondary students. Allow for all students Secondary and Post-Secondary 	<ul style="list-style-type: none"> Support new CTE student projects. Update department budget to purchase 3D Printers for all satellites 	<ul style="list-style-type: none"> Encourage High School Construction Trades graduates to enroll for GCC's post-secondary Construction Trades and Apprenticeship Certificate and degree programs by aggressive recruitment strategies (presentations by postsecondary 	<ul style="list-style-type: none"> Conduct recruitment presentations to GDOE high school seniors in Spring semester 	<ul style="list-style-type: none"> Increase enrollment of CT programs, outside of Apprenticeship by 5%.

Approved:

Revised:

	to participate in Living Lab components		faculty and guest speakers at secondary sites). <ul style="list-style-type: none"> Department Chair will coordinate w Industry Partners to develop Internships for CT students 		
3	Continue professional development programs for department faculty	Work with MIS to purchase needed computers and Laptops, training software and equipment	Hold Advisory Committee and Department meetings to ensure programs are meeting needs of Community	Continue NCCER articulation through training and conferences. Acquire new and relevant training through national partnerships outside of Guam	Establish and maintain a pool of qualified Instructors and trainers
4	Conduct recruitment presentations to GDOE high school seniors and selected Private schools in Spring semester.	Work with PIO on recruitment options, including fairs, radio, and print options.	Work with GCC CTE Counselors on a recruitment calendar and recruitment goals (some may need to be specific to certain schools)	<ul style="list-style-type: none"> Encourage High School Construction Trades graduates to enroll for GCC's post-secondary Construction Trades and Apprenticeship Certificate and degree programs by aggressive recruitment strategies (presentations by postsecondary faculty and guest 	Promote service-learning opportunities for Construction Trades students in collaboration with non-profit organizations to increase the level of civic engagement among Construction Trades students.

Approved:

Revised:

			<p>speakers at secondary sites).</p> <ul style="list-style-type: none">• Work Experience / Apprenticeship		
5	<ul style="list-style-type: none">• Conduct a department assessment of supplies, materials, equipment, and technology to ensure alignment to curriculum.	<p>To ensure that shops are in compliance with safety and industry standards.</p>	<ul style="list-style-type: none">• Assess all department equipment on campus• Assess all department equipment at satellite locations• Assess all other teaching materials	<ul style="list-style-type: none">• Update department's curriculum for programs and courses.• Update department's annual budget	<p>Complete department's assessment for programs and courses once curriculum is current.</p>

Approved:
Revised:

Growth Budget

The following items are needed to support the department's need to update and upgrade high demand supplies, materials and equipment to support the program. Programmatic changes and curriculum updates necessitate the updates and upgrades.

The items listed in each category were purchased over seven (7) years ago and have served the postsecondary, apprentices and bootcamp programs. The normal wear and tear of these high demand items warrant replacement to better serve students safely.

7240. SUPPORT CONSTRUCTION TRADES PROGRAM-\$40,000.00

Maintain and/or replace table saws, vertical drill presses, bench planers, sliding compound miter saws, circular saws, jigsaws, grinders, compressors, cordless drills' impact drivers, pneumatic and cordless finishing nail guns, air movers, industrial fans; vacuum pumps, recovery machines, digital multimeters, propane torch sets, shark bite plumbing compression systems, copper tube cutters, EMT benders, electrical tool sets, knockout 1/2 inch sets, stepup drill bit sets, drill bit sets, plier sets, crescent wrench sets, side cutter sets, tube flaring kits, tube cutters, tube threaders, bull floats, magnesium floats, cement trowel kits, portable cement vibrators, oxyacetaline valve, doublezero welding tips, journeyman torch bodies, hydraulic rebar benders, manual rebar benders.

SUPPORT CIVIL ENGINEERING/SURVEYING PROGRAMS-\$20,000.00

Maintain and/or replace FOIF Total Station Surveying, Prism Station Target, Prisms, Mini Prism Triangles, Mapping Equipment Levels, Trimble DGPS, Optical Plumbets, Trimble Data collector.

These items have served the postsecondary, apprentices, and bootcamp populations for the last five years. The normal wear and tear of these items over the years have necessitated replacement items to better serve students safely.

7240. SUPPORT PREARCHITECTURAL DRAFTING PROGRAM-\$2,000.00

Maintain and/or replace drawing mats.

7250. SUPPORT COMPUTER AIDED DESIGN AND DRAFTING PROGRAM-\$10,000.00

Maintain and/or replace digital presenters, plotters, and printers.

R_NO	R_FD	R_DEPT	R_OBJ	R_FY	R_DESC	R_JUSTIFICATION	R_QTY	R_UNIT	R_IT	R_Priority	Total Qty x Unit
	4		7240		INSTRUCTIONAL SUPPLIES & MATERIALS	SUPPORT CONSTRUCTION TRADES PROGRAM-Maintain or replace table saws, vertical drill presses, bench planers, sliding compound miter saws, circular saws, jigsaws, grinders, compressors, cordless drills, impact drivers, pneumatic and cordless finishing nail guns, air movers, industrial fans, vacuum pumps, recovery machines, digital multimeters, propane torch sets, shark bite plumbing compression systems, copper tube cutters, EMT benders, electrical tool sets, knockout 1/2 inch sets, stepup drill bit sets, drill bit sets, pier sets, crescent wrench sets, side cutter sets, tube flaring kits, tube cutters, tube threaders, bull floats, magnesium floats, cement trowel kits, portable cement vibrators, oxyacetaline valve, doublezero welding tips, journeyman torch benders, hydraulic rebar benders, manual rebar benders.	4	10000		1	40000
	4		7240		INSTRUCTIONAL SUPPLIES & MATERIALS	SUPPORT CIVIL ENGINEERING/SURVEYING PROGRAMS-Maintain or replace FOIF Total Station Surveying, Prism Station Target, Prisms, Mini Prism Triangles, Mapping Equipment Levels, Trimble DGPS, Optical Plumbers, Trimble Data collector.	4	5000		1	20000
	4		7240		INSTRUCTIONAL SUPPLIES & MATERIALS	SUPPORT PREARCHITECTURAL DRAFTING PROGRAM-Maintain or replace drawing mats.	4	500		1	2000
			7250		INSTRUCTIONAL SUPPLIES & MATERIALS	SUPPORT COMPUTER AIDED DESIGN AND DRAFTING PROGRAM-Maintain or replace digital presenters, plotter, and printer.	4	2500		1	10000

DEPT CODE	DEPT DIV CODE	DEPT DESC	DEPT FY05 BUDGET	DEPT GOAL 1	DEPT GOAL 2	DEPT GOAL 3	DEPT INDICATOR 1	DEPT INDICATOR 2	DEPT INDICATOR 3	DEPT OUTCOME 1	DEPT OUTCOME 2	DEPT OUTCOME 3
		CONSTRUCTION TRADES		TO ENSURE THE CURRENCY OF CURRICULUM DOCUMENTS.	TO ENSURE THAT INSTRUCTIONAL ASSESSMENT DEADLINES ARE MET.	TO ENSURE THAT SHOPS ARE IN COMPLIANCE WITH SAFETY AND INDUSTRY STANDARDS	30% OF CURRICULUM WILL BE REVIEWED AND UPDATED BY THE ADVISORY COMMITTEE.	SUBMISSION OF REQUIRED INFORMATION TO AIER.	COMPLIANCE AND SAFETY CHECKLIST WILL BE UTILIZED	CURRICULUM DOCUMENTS WILL BE SUBMITTED TO CCA AND WILL BE ALIGNED TO INDUSTRY STANDARDS.	100% ASSESSMENT COMPLIANT.	CONDUCTIVE LEARNING ENVIRONMENTS WILL BE PRESENT IN ALL SHOPS WITHIN THE PROGRAM.

Budget 2024 Request

Construction Trades Growth Budget

The following tools and equipment itemized in the attachment are needed to support the department's need to update and upgrade high demand supplies, materials and equipment to support the program. In addition to regularly scheduled course offerings, off-schedule and additional programmatic course offerings necessitate the updates and upgrades as there has been an influx of students from bootcamps and special programs who continuously need access to the equipment. This year-round access has increased the wear and tear on these items.

Over the years, the cost of each item has gone up and most items require several replacements in order to better serve the populations that are we continue to provide services to. The attachment provides an estimate of cost per item. Once given the opportunity to retool the department, multiple quantities of an item may be purchased based on the program's immediate needs.

7240. SUPPORT CONSTRUCTION TRADES PROGRAM-\$40,000.00 (Attachment A)

Maintain and/or replace table saws, vertical drill presses, bench planers, sliding compound miter saws, circular saws, jigsaws, grinders, compressors, cordless drills' impact drivers, pneumatic and cordless finishing nail guns, air movers, industrial fans; vacuum pumps, recovery machines, digital multimeters, propane torch sets, shark bite plumbing compression systems, copper tube cutters, EMT benders, electrical tool sets, knockout 1/2 inch sets, step up drill bit sets, drill bit sets, plier sets, crescent wrench sets, side cutter sets, tube flaring kits, tube cutters, tube threaders, bull floats, magnesium floats, cement trowel kits, portable cement vibrators, oxyacetylene valve, double zero welding tips, journeyman torch bodies, hydraulic rebar benders, manual rebar benders.

The items were purchased over seven (7) years ago and have served the postsecondary, apprentices and bootcamp programs. The wear and tear of these high demand items warrant replacement to better serve students safely.

SUPPORT CIVIL ENGINEERING/SURVEYING PROGRAMS-\$20,000.00 (Attachment A)

Maintain and/or replace FOIF Total Station Surveying, Prism Station Target, Prisms, Mini Prism Triangles, Mapping Equipment Levels, Trimble DGPS, Optical Plumbets, Trimble Data collector.

These items listed in Attachment A have served the postsecondary, apprentices, and bootcamp populations for the last five (5) years. The wear and tear of these items over the years have necessitated replacement items to better serve students safely.

7240. SUPPORT PREARCHITECTURAL DRAFTING PROGRAM-\$2,000.00 (Attachment B)

Maintain and/or replace drawing mats.

The items listed in Attachment B have served the postsecondary, apprentices, and bootcamp populations for the last five (5) years. The normal wear and tear of these items over the years have necessitated replacement items to better serve students safely.

**7250. SUPPORT COMPUTER AIDED DESIGN AND DRAFTING PROGRAM-\$10,000.00
(Attachment C)**

Maintain and/or replace digital presenters, plotters, and printers.

The items listed in Attachment C have served the postsecondary, apprentices, and bootcamp populations for the last five (5) years. The wear and tear of these items over the years have necessitated replacement items to better serve students safely.

ATTACHMENT A

ITEMS:	QTY:	PROJECTED PRICE:	Home Depot 648-0440 EXT: 389
Table Saw	1	\$1,227.62	Milwaukee M18 Fuel One-Key 18 volt Lithium-Ion Brushless Cordless 8 1/4 inch Table Saw Kit w/ 12.0Ah Battery & Rapid Charger
Veritcal Drill Press	1	\$703.90	Grizzly Industrial 12 Speed Heavy-Duty Bench-Top Drill Press
Bench Planers	1	\$834.00	Makita 15 Amp 12 inch Corded Compact Portable Planer with Interna-Lok Automated Head Clamp and Blade Set
Sliding Compound Miter Saws	1	\$749.00	Milwaukee 12 inch Dual Bevel Sliding Compound Miter Saw
Circular Saws	1	\$899.00	Milwaukee M18 Fuel One-Key 18V Lithium-Ion Brushless Cordless 9 inch Cut Off Saw Kit w/ 2 12.0Ah Batteries and Rapid Charger
Jigsaws	1	\$398.00	Milwaukee M18 Fuel 18 volt Lithium-Ion Brushless Cordless Barrel Grip Jig Saw w/ 5.0Ah Battery Starter Kit
Grinders	1	\$349.00	Milwaukee M18 Fuel 18V Lithium-Ion Brushless Cordless 4-1/2 inch .75 inch Grinder w/ Paddle Switch with 1 5.0Ah Battery
Compressors	1	\$499.00	Husky 27 Gallon 200 PSI Oil Free Portable Vertical Electric Air Compressor
Cordless Drills Impact Drivers	1	\$279.00	Milwaukee M18 18V Lithium-Ion Cordless Drill Driver/Impact Driver/Multi-Tool Combo Kit (3
Pneumatic Finishing Nail Gun	1	\$423.44	Paslode 16 Gauge Cordless Lithium-Ion Angled Finish Nailer
Air Movers	1	\$329.00	X-830 1HP High Velocity Air Mover
Industrial Fans	1	\$469.70	King Electric Drum Fan, 36 inch Direct Drive, Fixed
Vacuum Pumps	1	\$298.75	XtremepowerUS 1/3 HP 4 CFM Air Vacuum Pump HVAC A/C Refrigerant Kit w/ AC Manifold Gauge Set and Leak Detector
Recovery Machines	1	\$7,482.66	MAHLE R1234yf AC Recovery, Recharge and Recycling Service Machine
Digital Multimeters	1	\$289.00	Milwaukee Digital Multimeter w/ 400 Amp Clamp Meter Value Bundle
Propane Torch Sets	1	\$419.00	Lincoln Electric Port_A-Torch Kit with Oxygen and Acetylene Tanks and 3/16 inch x 12 ft hose, for Cutting Welding and Brazing
Shark Bite Plumbing Compression System	1	\$48.74	SharkBite 1/2 inch Push to Connect x 3/8 inch OD Compression Chrome Plated Brass Quarter Turn Angle Stop Valve Pro Pack (4 pack)
Copper Tube Cutters	1	\$298.43	Milwaukee M12 12V Lithium-Ion Cordless Copper Tubing Cutter Kirt with 6.0Ah Battery
EMT Bender	1	\$89.97	Milwaukee 1 inch EMT Aluminum Conduit

ATTACHMENT A

Electrical Tool Sets	1	\$779.88	Wiha 59 Piece Insulated Master Electrician's Tool Set
Knockout 1/2 inch Sets	1	\$1,599.99	Milwaukee M18 18V Lithium-Ion 1/2 inch to 4 inch Force Logic 6 Ton Cordless Knockout Tool Kit w/ Die Set, 1 2.0Ah Battery
Stepup Drill Bit Sets	1	\$239.99	Milwaukee Black Oxide Step Drill Bit Set (6 piece)
Drill Bit Sets	1	\$129.00	Milwaukee Shockwave Impact Duty Titanium Drill Bit Set (29 pieces)
Plier Sets	1	\$79.97	Milwaukee Pliers Kit w/ Screwdriver Set, 25 feet Auto Lock Tape Measure, and Fastback Utility Knives Hand Tool Set (13 piece)
Crescent Wrench Set	1	\$59.97	Crescent Aluminum Pipe Wrench Combo Set (2 piece)
Side Cutter Sets	1	\$46.97	Wiss Straight-Cut Aviation Snip (3 pack)
Tube Flaring Kits	1	\$205.49	K Tool International Brake Line Flaring Tool
Tube Cutters	1	\$169.00	Milwaukee M12 12V Lithium-Ion Cordless Copper Tubing Cutter
Tube Threaders	1	\$2,354.00	Milwaukee M18 Fuel One-Key Cordless Brushless Pipe Threader Kit w/ Portable Leveling Tripod Chain Vise Stand
Bull Floats	1	\$387.49	Tomahawk Power 48 inch x 8 inch Round End Bull Float Magnesium Blade and 18 feet Handle Concrete Screed Finishing Tool
Magnesium Floats	1	\$151.85	Marshalltown 48 inch x 8 inch Magnesium Bull Float
Cement Trowel Kits	1	\$1,161.19	Stark USA 22 inch Cement Power Trowel Concrete w/ 6.5HP 196CC EPA Concise Engine G200FA
Portable Cement Vibrators	1	\$449.00	Milwaukee M18 Fuel 18V Lithium-Ion Brushless Cordless 8 Feet Concrete Pencil Vibrator
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Journeyman Torch Bodies	1	\$108.00	Smartech Product 8000 Lumen Rechargeable Flashlight w/ 10000 mAh Jump Starter and Power Bank
Hydraulic Rebar Benders	1	\$885.00	XtremepowerUS 5/8 inch 900-Watt Electric Hydraulic Rebar Bender Tool Kit w/ Adjustable Angle
Manual Rebar Benders	1	\$382.04	Bon Tool Manual Rebar Bender and Cutter
		\$25,583.64	

ATTACHMENT B

ITEMS:	QTY:	PROJECTED PRICE:	Ebay
Prism Station Target	1	\$337.78	SECO 5910-02-ARD Survey Prism and Target Pair for Total Station
Prisms	1	\$32.00	Bule Single Prism for Total Station Surveying
Mini Prism Triangles	1	\$85.00	Mini Prism Triangle Blue Heads 360 Degree Total Station Surveying
Mapping Equipment Levels	1	\$38.66	Lot of 8ps Levels and Surveying Tripod Stand Brass Threads Lock For Auto Level
Trimble DGPS	1	\$45.00	Bipod for Tatal Station GPS Topcon Trimble Mini Prism Poli Surveying
Optical Plumbets	1	\$150.00	Original Topcon Tribach w/ Optical Plummet for Surveying
Trimble Data Collector	1	\$299.99	Trimble Nomad Juno 3B Data Collector Survey Pro For Topcon, Nikon Instrument
		\$988.43	

ATTACHMENT C

ITEMS:	QTY:	PROJECTED PRICE:	Amazon
Drawing Mats	1	\$15.95	Koala Tools - 4 pages Large Drawing Pads for 2- Point Perspective Drawing, Sketch Pad w/Grid Graph Paper for Interior Room Design, Industrial, Architectual and 3D Design
Digital Presenter	1	\$89.76	Logitech Spotlight Presentation Remote - Advanced Digital Highlighting w/ Bluetooth, Universal Presenter Clicker, 30N Range and Quick Charging - Black
Digital Printer	1	\$399.99	Brother HL-L8260CDW Business Color Laser Printer, Duplex Printing, Flexible Wireless Networking, Mobile Device Printing, Advanced Security Features- Amazon Dash Replenishment Ready
Digital Plotter	1	\$729.00	HP Design Jet T210 Large Format 24 Inch Plotter Printer, Includes: 2 Year Warranty Care Pack (8AG32H)
		\$1,234.70	

Budget 2024 Request

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**7250. SUPPORT COMPUTER AIDED DESIGN AND DRAFTING PROGRAM-\$10,000.00
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Digital Printer	1	\$399.99	Brother HL-L8260CDW Business Color Laser Printer, Duplex Printing, Flexible Wireless Networking, Mobile Device Printing, Advanced Security Features- Amazon Dash Replenishment Ready
Digital Plotter	1	\$729.00	HP Design Jet T210 Large Format 24 Inch Plotter Printer, Includes: 2 Year Warranty Care Pack (8AG32H)
		\$1,234.70	

