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Phila, DE, Allentown (215) 824-2300 – Edison (732) 372-6020 – Hammonton, Sicklerville (609) 567-5675

NEW	COURSE TITLE AND DESCRIPTION	CONTACT
COURSE		HOURS
NUMBER		
CONT180	INTRODUCTION TO APPRENTICESHIP Apprentices will be introduced to their Instructors, Coordinators and Council Representatives. They will be informed of their benefits and union obligations. A tour of the facility will be given along with an explanation of the rules and regulations. They will also receive safety training.	40
CONT181	INTRODUCTION TO PILE DRIVING This Workshop discusses the roles of our members in a pile driver crew. It addresses the employability skills and the necessary information that an apprentice should know to be a productive member of the crew. Tolls and equipment used in pile driving are defined and the different types of pile are identified.	40
CONT182	WELDING I Students will be introduced to safety while welding and safe oxy acetylene cutting operations. The students will be introduced to the 6010 Welding process as well as our Virtual welding simulator. A working knowledge of the welding shop and equipment will be emphasized.	40
SFHT185	BASIC RIGGING AND CRANE ASSEMBLY SAFETY Students will learn safe selection and inspection of rigging hardware as well as the basic math used in the implantation of proper rigging techniques. Voice and hand signals will be further explained.	40
CONT184	COFFERDAM CONSTRUCTION Participants learn to interpret site plans and perform project layout using transit level and basic math. Course includes handson-skill based training in the installation and removal of cofferdams and falsework. Introduces driving sheet pile to close a cofferdam. Emphasis is on safe work practices with attention to industry recognized best practices and efficient work procedures.	32
CONT190	CONSTRUCTION INTERNSHIP I This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student's occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union official and will be placed on the student's record. There are specific competencies from work experience required.	1800
	TOTAL	192

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NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH100	INTRODUCTORY CONCEPTS OF MATHEMATICS This course covers basic treatment of trade math beginning with general math, fractions, decimals, ratios and percentages. Early layout theory in spacing of framing using linear measurements and quantitative material take-off is introduced.	32
CONT185	BRIDGE ABUTMENT PROJET Participants learn standard procedures for the execution of a bridge abutment project. Course includeshands-on, skills-based training in the installation of false work pile, whalers, sheet pile, pipe pile and introduces basic concrete formwork. Emphasis is on safe work practices with attention to industry recognized best practices and efficient work procedures.	24
CONT186	LAGGING AND DRILLING TIEBACKS Participants learn standard industry procedures for drilling Soldier Pile. Course includes hands-on, skills-based training in the drilling off-beams, proper installation of lagging, tiebacks and properlytesting ties. Emphasis is on safe work practices with attention to industry recognized best practices and efficient work procedures.	24
SFHT180	PILE DRIVING SAFETY I Apprentices will be trained in depth on OSHA rules and regulations pe1iinent to the construction industry. Course will also include detailed training in chainsaw safety.	32
CONT187	WELDING II Instructors will refresh the students in the importance of safety during welding. Students will applytechniques taught in previous welding classes. Emphasis will be on 7018 Welding Electrodes and student progression to welding in the vertical position.	40
CONT188	SEAMANSHIP FOR PILE DRIVERS This workshop is designed to prepare the UBC Pile driver to work in the marine environment. It teaches students how to differentiate among various vessels used in Marine Construction as well as how to workaround the equipment on the vessel. It explains how vessels communicate to other vessels and how to maneuver them. This workshop also provides the UBC Pile driver with the information needed to assist with dive operations.	40
CONT199	CONSTRUCTION INTERNSHIP II This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student's occupational area. The contact hours	1800

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experie	enced through on-the-job training will be verified by an	
employ	er or union official and will be placed on the student's	
record.	There are specific competencies from work experience	
require	d.	
	TOTAL	192

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH120	INTRODUCTORY CONCEPTS OF TRIGONOMETRY This course focuses on the close relationship between right angle trigonometry and exterior building layout. The course also covers Program Arc layout using Pythagorean Theorem, 3-4-5 right angle layout and arc scribe. Students will also be able to demonstrate units of angular measurement and how it is used for building layout. Finally, the course will cover the Cartesian Coordinate Plane to determine coordinate values for building points.	48
SFHT185	PILE DRIVING SAFETY II Students will be trained in the recognition of confined spaces and dangers associated with them. Students will also be trained in the hazards associated with working in excavations and methods to mitigate those hazards. This will be done using UBC curriculum and OSHA construction standards. During the final session, students will be instructed in the hazards associated withworking around pile driving equipment.	32
CONT280	WELDING III Over the course of this training, students will move toward certification in the SMAW process.	32
CONT281	CONCRETE FORMS I Participants learn construction of basic concrete forms typically used by pile drivers. Course includes hands-on, skills- based training in the construction of fo1ms for pile cap and column forms. Emphasis is on safe work practices with attention to industry recognized best practices and efficient work procedure.	32
CONT282	ADVANCED PILE DRIVING Participants learn standard industry procedures for driving pile. Course includes hands on, skills-based training in the driving of H-beams, wood pile, pipe pile and sheet pile. Introduces splice preparation andsetting. Emphasis is on safe work practices with attention to recognized best practices and efficient work procedure.	16
CONT283	EXCLUSION AND RETENTION PROCEDURES	32

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	This class explains the different shapes and types of exclusion	
	and retention structures and their uses. All the hardware,	
	material and equipment used in their construction is	
	prescribed. Step by step directions are provided on how to	
	build these structures. Safety issues and precautions are	
	explained forworking on both land and water.	
CONT290	CONSTRUCTION INTERNSHIP III	1800
	This course consists of paid OJT, internship, or practicum	
	performed in a business, industry, trade, or technical career	
	setting within the student's occupational area. The contact hours	
	experienced through on-the-job training will be verified by an	
	employer or union official and will be placed on the student's	
	record. There are specific competencies from work experience	
	required.	
	TOTAL	192

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH120	INTRODUCTORY CONCEPTS OF TRIGONOMETRY This course focuses on the close relationship between right angle trigonometry and exterior building layout. The course also covers Program Arc layout using Pythagorean Theorem, 3-4-5 right angle layout and arc scribe. Students will also be able to demonstrate units of angular measurement and how it is used for building layout. Finally, the course will cover the Cartesian Coordinate Plane to determine coordinate values for building points.	48
CONT284	WELDING IV Over the course of 40 hours, students will continue to work towards ce1tification in 3G,4G and 6G position in SMAW, GMAW and FCAW. Students will be shown what code they will be welding to and proper ways to interpret weldingsymbols and procedures.	40
CONT285	DRILLED SHAFT Participants learn to perform caisson drilling procedures. Course includes hands-on, skills-based training in the installation of mini-pile, micro-pile and helical anchors. Emphasis is on safe workpractices with attention to industry recognizedbest practices and efficient work procedures.	16
SFHT280	HAZWOPER Over the course of 40 hours, students will be trained according to OSHA 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response. Members will be trained to recognize the following: hazardous situations, health and safety procedures, PPE, medical monitoring, hazardous waste	40

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	operations, hazardous materials handling, principles of	
	toxicology, site security, regulate knowledge, Resource	
	Conservation and Recovery Act (RCRA) and technical	
	knowledge.	
SFHT286	RIGGING CERTIFICATION	40
	This class is intended to supplement the hand -on experience	
	gained in instruction on rigging techniques and hardware. The	
	class also features safety precautions and practices as well as	
	details on how to properly inspect and care for rigging	
	equipment. The students will be offered an opportunity to	
	become a Certified Rigger/ Signaler after successful completion	
	of the class.	
CONT287	CONCRETE FORMS II	16
	Participants learn construction of advanced concrete forms	
	typically used by the pile driver. Courses include hands-on,	
	skills-based training in the forming construction of pier	
	hammerheads. Emphasis is on safe work practices with	
	attention to industry recognized bestpractices and efficient	
	work procedures.	
CONT299	CONSTRUCTION INTERNSHIP IV	1800
	This course consists of paid OJT, internship, or practicum	
	performed in a business, industry, trade, or technical career	
	setting within the student's occupational area. The contact hours	
	experienced through on-the-job training will be verified by an	
	employer or union official and will be placed on the student's	
	record. There are specific competencies from work experience	
	required.	
	TOTAL	200

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NEW	COURSE TITLE AND DESCRIPTION	CONTACT
COURSE NUMBER		HOURS
CONT288	MARINE CONSTRUCTION Participants learn principles of pile driving operations from	40
	watercraft. Course includes hands-on, skills-based training on barge mooring, working from float stages, safe boat	
	operations, welding, burning and drilling. Emphasis is on safe	
	work practices with attention to industry recognized best	
	practices and efficient work procedures.	
CONT289	UNDERWATER WELDING	40
	Participants, who are already ADCI certified commercial divers,	
	will be instructed in the basics of underwater welding in the 2F,	
	3F and 4F position according to AWS D3.6 Underwater Welding Code.	
CONT291	PILE JACKETING	40
CONTEST	Over the course of 40 hours, participants will learn basics of	40
	pile repair. Course includes hands-on, skills-based training in	
	the repair of piles using pile jacketing and plumb posting	
	methods. Emphasis is on safe work practices with attention to	
	indust1y recognized best practices and efficient work	
221,222	procedures.	
CONT292	UNDERWATER BURNING	32
	Over the course of 40 hours participants will trained according to ADC! U/W burning procedures. Members will be trained to	
	recognize hazards associated with U/W burning andproper U/W	
	burning techniques.	
CONT300	CONSTRUCTION INTERNSHIP V	1800
	This course consists of paid OJT, internship, or practicum	
	performed in a business, industry, trade, or technical career	
	setting within the student's occupational area. The contact hours	
	experienced through on-the-job training will be verified by an	
	employer or union official and will be placed on the student's record. There are specific competencies from work experience	
	required.	
	TOTAL	152