CITY COLLEGE OF SAN FRANCISCO

CONSTRUCTION MANAGEMENT

CONSTRUCTION

MAPPING CLP Career Ladders Project

Legend

**Aspirational*

In development

INDUSTRY CERTIFICATIONS	SUPPORT/ CBO's	BA/BS Degree/Transfer		APPRENTICESHIP	INTEGRATED STUDENT SUPPORTS	JOBS AND WAGES
ADVANCED LEVEL	**ADVANCED**	**AA./A.S Degree/Transfer**			**ADVANCED LEVEL**	**ADVANCED LEVEL** -Licensed Contractor
		AS - Construction Management	**Contract License Prep Class**	**Journey Level**		
		General Education	General Education / General Education			
		Mid Level Certificate				
MID LEVEL -Electrical Trainee	**MID LEVEL**	**Advanced Skills Certificate of Achievement - Construction Management (30 units)** **Required courses:** CM 100 Fundamentals of Construction Management (3 units) CM 110 Construction Graphics (3 units) CM 240 Construction Cost Estimating (3 units) CM 244 Construction Scheduling (3 units) CM 248 Construction Project Administration (3 units) ARCH 120 Fundamentals of Building Construction (3 units) **Choose 12 units from the following electives:** ARCH 127 Fundamentals of Building Structures (3 units) ARCH 160 Professional Practice (3 units) ARCH 240 Fundamentals of the International Building Code (3 units) MABS 60 Introduction to Computer Applications for Business (3 units) BIM 120 Revit Architecture I (3 units) **ONE of the following communication courses:** SPCH 6 Workplace Communication (3 units) SUPV 234 Communication for Business Management (3 units) BSEN 74 Written Business Communication (3 units)	**Certificate of Accomplishment - Basic Building Repair (Maintanence) (16 units)** **Required courses:** CNST 69 Construction Safety (1 unit) CNST 100 - Introduction to Construction Applications (3 units) **Choose from 12 units from below:** CNST 107 Blueprint Reading (3 units) CNST 116 - Furniture Making (3 units) CNST 113 - Finish Carpentry (4 units) (3 units)** CNST 109 Residential Wiring (3 units) CNST 103 - Residential Plumbing (4 units) (3 units)** CNST 111 Carpentry - Rough Framing (4 units) (3 units)** CNST 102 - Concrete Applications (3 units) CNST 130 - Residential Energy & Efficiency Measures (3 units) CM 110 - Construction Graphics (3) Contractors License Prep (?)	**Certificate of Accomplishment (Achievement**) - Residential Wiring (16 units) (13 units**)** **Required courses:** CNST 69 Construction Safety (1 unit) CNST 100 Introduction to Construction Applications (3 units) CNST 107 Blueprint Reading (3 units) CNST 109 Residential Wiring (3 units) **Choose from 3 units from below:** ~~CNST 128 Introduction to the National Electrical Code (2 units)**~~ ~~CNST 129 Intermediate National Electrical Code (2 units)**~~ ~~CNST 131 Advanced National Electrical Codes (2 units)**~~ CNST XXX - Electrical Code (3 units)**	**Certificate of Accomplishment (Achievement**) - Residential Plumbing (14 units) (13 units**)** **Required courses:** CNST 69 - Construction Safety (1 unit) CNST 100 - Introduction to Construction Applications (3 units) CNST 103 - Residential Plumbing (4 units) (3 units)** CNST 107 - Blueprint Reading (3 units) **Choose 3 units from below:** CNST 106 - Fundamentals of the Uniform Plumbing Code (3 units) CNST XXX - Intermediate	**Certificate of Accomplishment (Achievement**) - Carpentry (18 unit) (13 units**)** **Required courses:** CNST 69 Construction Safety (1 unit) CNST 100 Introduction to Construction Applications (3 units) CNST 111 Carpentry - Rough Framing (4 units) (3 units)** CNST 107 - Blueprint Reading (3 units) **Choose 4 (3**) units from one of the following elective courses:** CNST 112 Carpentry-Advanced Framing (4 units) (3 units)** CNST 113 - Finish Carpentry (4 units)(3 units)** CNST 116 - Furniture Making (3 units)** CNST 118A - Advanced Furniture Making I (3 units)** CNST 118B - Advanced Furniture Making II (3 units)** CNST XXX - Building Codes tbd**	**4th Year Apprenticeship** **3rd Year Apprenticeship** **2nd Year Apprenticeship** **1st Year Apprenticeship**	**MID LEVEL** -Construction Carpenter, $18.60-$32.71/hr -Construction and Building Inspectors, $32.21-$48.74/hr -Helpers, Electricians, $13.97-$17.53/hr -Operating Engineers and Other Construction Equipment Operators, $24.64-$41.63/hr
		Core Skills Certificate of Accomplishment - Construction Management (15 units) **Required Courses:** CM 100 - Fundamentals of Construction Management (3 units) CM 110 - Construction Graphics (3 units) CM 240 - Construction Cost Estimating (3 units) CM 244 - Construction Scheduling (3 units) CM 248 - Construction Project Administration (3 units)				
		Entry Level Certificate				
ENTRY LEVEL	**ENTRY LEVEL** -Young Community Developers -Bay View Hunters Point Family -Foster Youth -Other:	**CAPSA (18 units)** "Professional Services (1 semester) CM 100 Fundamentals of Construction Management (3 units) Microsoft Office [What else?]	**Certificate of Accomplishment - Construction Essentials (Construction Fundamental) (11 units)** CNST 100 Introduction to Construction Applications (3 units) CNST 107 Blueprint Reading (3 units) CNST 69 Construction Safety (1 unit) *ET 50 Technical Math (4 units)***		**City Build Pre-Apprenticeship (9-18 weeks)** **Outcomes**: -Job training certificate after one semester of practical training and on-the-job instruction in partnership with City College of San Francisco – Mission Center -Basic accounting, QuickBooks, bookkeeping, and Microsoft Office instruction -Construction terminology -Construction Administration job readiness training On-the-job training internship with a partner construction company	**ENTRY LEVEL** -Laborer -Helper -Intern (Non-union) -Painters, Construction and Mainenance, $16.54-$28.22/hr -Construction Laborers, $15.01-$26.71/hr

Entry into Local UA467 Apprenticeship (math test waived)

Certificate - Refrigeration Technician

Adult School Transition & High School Early College Credit Opportunities

DRAFT DATE:7/9/2017