

DRAFTER, ARCHITECTURAL

RAPIDS: 0126D

O*NET/SOC: 17-3011.01

REVISION DATE: 09/2019

TRADE DESCRIPTION: Prepare detailed drawings of architectural designs and plans for buildings and structures according to specifications provided by architect.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following skill areas. Actual work time must be recorded in the Work Experience Log; each skill area must be completed.

Applicable Ratings/MOS/NEC

USMC MOS: 1361

USCG: None

USN: EA

USA MOS: 12T, 12Y

Related Instruction:

Trade related On-The-Job-Training (OJT) or Any Trade related schools/courses totaling 288 or more hours.

Additional Requirement:

None.

Total Hours: **4000**

Skill	Description	Hours
A	ADMINISTRATION	500

	<p>-- Supervise, coordinate, and inspect the work of draftspersons, technicians, and technologists on construction projects.</p> <p>-- Check dimensions of materials to be used and assign numbers to lists of materials.</p> <p>-- Prepare cost estimates, contracts, bidding documents, and technical reports for specific projects under an architect's supervision.</p>	
B	<p>SKETCHING</p> <p>-- Draw rough and detailed scale plans for foundations, buildings, and structures, based on preliminary concepts, sketches, engineering calculations, specification sheets, and other data.</p>	500
C	<p>CONSTRUCTION DETAILING</p> <p>-- Determine procedures and instructions to be followed, according to design specifications and quantity of required materials.</p>	500
D	<p>DETAIL WORK</p> <p>-- Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.</p> <p>-- Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans.</p>	500
E	<p>SPECIFICATION WRITING</p> <p>-- Analyze technical implications of architect's design concept, calculating weights, volumes, and stress factors.</p>	500
F	<p>CHECKING</p> <p>-- Obtain and assemble data to complete architectural designs, visiting job sites to compile measurements as necessary.</p>	500
G	<p>FIELD INSPECTION</p> <p>-- Represent architect on construction site, ensuring builder compliance with design specifications and advising on design corrections, under architect's supervision.</p>	500
H	<p>CAD DRAWING</p> <p>-- Operate computer-aided drafting (CAD) equipment or conventional drafting station to produce designs, working drawings, charts, forms, and records.</p> <p>-- Lay out and plan interior room arrangements for commercial buildings, using computer-assisted drafting (CAD) equipment and software.</p>	500