

CLASS TITLE:       **Civil Engineer II**

CHARACTERISTICS OF THE CLASS: Under immediate supervision, the class performs entry level professional civil engineering work related to the construction, maintenance and design of various infrastructure and building projects; and performs related duties as required.

ESSENTIAL DUTIES: Conducts field surveys to collect data for planned improvements to water, sewer, traffic, bridge, street, airport and related systems and facilities; establishes line and grade, property lines and elevations for construction projects; prepares preliminary design drawings and assists in the preparation of contract work plans, specifications and estimates for labor, material and equipment costs for infrastructure projects; prepares analysis and support information for reports on the status and costs of engineering projects.

RELATED DUTIES: May review permit applications submitted by developers for activities affecting foundations, waterways, traffic and City landmarks; may maintain records of inspections, permits, work orders, correspondence and related documentation.

MINIMUM QUALIFICATIONS:

Training and Experience. Graduation from an accredited college or university with a Bachelor's degree in Civil Engineering or a directly related field of engineering, or an equivalent combination of training and experience, provided the minimum degree requirement is met.

Some positions may require a valid State of Illinois driver's license.

Knowledge, Abilities and Skill. Some knowledge of the principles and practices of civil engineering design and construction. Some knowledge of advanced mathematical principles. Some knowledge of the operation, care and use of surveying instruments. Some knowledge of computer assisted design software. Some knowledge of infrastructure systems.

Ability to apply basic civil engineering theories to municipal development projects. Ability to conduct land use and related surveys. Ability to use computer aided design software. Ability to perform engineering calculations.

Some skill in the application of modern civil engineering principles to practical problems. Some advanced technical math skills. Some skill in the use of surveying and drafting equipment. Some skill operating computer assisted design software. Some skill in conducting standard engineering tests and surveys.

Physical Requirements. Ability to access work sites during various stages of construction or repair.

Code: **5612**  
Operation and Construction Service  
Engineering, Designing and Structural Group  
Civil Engineering Series

CLASS TITLE: **Civil Engineer II (Cont'd)**

Working Conditions. Inside: General office environment. Outside:  
Occasional exposure to inclement weather and extreme temperatures.

Equipment. Field surveying equipment. CAD system. Standard office  
equipment including personal computers.

NOTE: While the list of essential duties is intended to be as  
inclusive as possible, there may be other duties which are  
essential to particular positions within the class.

March, 2002  
City of Chicago  
Department of Personnel

Driver's License added March, 2017