STATE OF OHIO (DAS) CLASSIFICATION SPECIFICATION	**CLASSIFICATION SERIES** Software Developer	**SERIES NUMBER** 6415AG
	MAJOR AGENCIES Attorney General only	**EFFECTIVE** 10/19/2014

SERIES PURPOSE
The purpose of the Software Developer classification in the Attorney General's Office is to develop software, programs, & applications for information systems through analysis, testing & implementation, requirements management, & solutions design.

JOB TITLE	**JOB CODE**	**PAY GRADE**	**EFFECTIVE**
Software Developer 1	64151AG	13	10/19/2014

CLASS CONCEPT
The first level developer possesses a working technical knowledge of program & application development & receives general supervision in order to develop &/or modify software & programs for information system applications, perform testing & debugging, & assist with analysis & design.

JOB TITLE	**JOB CODE**	**PAY GRADE**	**EFFECTIVE**
Software Developer 2	64152AG	14	10/19/2014

CLASS CONCEPT
The intermediate level developer specialist possesses a considerable technical knowledge of program & application development & receives general direction in order to design and perform systems analysis, recommend application solutions &/or tests, corrects, & implements software & programs & assists with documentation.

JOB TITLE	**JOB CODE**	**PAY GRADE**	**EFFECTIVE**
Software Developer 3	64153AG	15	10/19/2014

CLASS CONCEPT
The advanced level developer specialist requires a thorough technical knowledge of program & application development & receives general direction in order to assure software requirements are defined & approved, perform code reviews, & ensure AGO application development standards are met.

JOB TITLE	**JOB CODE**	**PAY GRADE**	**EFFECTIVE**
Software Developer 4	64154AG	16	10/19/2014

CLASS CONCEPT
The expert level developer specialist position requires an extensive knowledge of program & application development & receives general direction in order to provide solution design, develop project plans with project manager or recommend approach through defining tasks &/or leading meetings relating to programs for information system applications.

JOB TITLE	JOB CODE	B. U.	EFFECTIVE	PAY GRADE
Software Developer 1	64151AG	47	10/19/2014	13

JOB DUTIES IN ORDER OF IMPORTANCE (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

At the first level, develops new & existing software, applications, & programs by reading, writing, & extracting information & reports from individual files; creates &/or modifies existing programs; applies development process.

Analyzes & designs new programs & applications by assisting in gathering system requirements; defining & documenting current &/or future business process flows; gathers & analyzes facts, defines problems; assists in developing potential solutions; identifies & develops application solutions to business problems; provides post production support of business applications, including routine maintenance & enhancements; researches & aids in troubleshooting program & application production errors.

Assists higher-level developers in development of application related training materials & user-guides. Creates &/or modifies necessary program &/or application source code documentation; assists in records &/or reports development progress.

Communicates with business owner regarding program & application development tasks; obtains information on focused technical tasks involving database, infrastructure, & application information; summarizes, in written and verbal form, information gathered on development.

MAJOR WORKER CHARACTERISTICS

Knowledge of: utilization & purposes of management information systems; various operating systems, Internet browsers & platforms; principles of organization & project management; oral and written communication tools & techniques; customer support & personal services; office policies & procedures*, applicable laws; vision, mission, & goals of office*; program & application development principles & methods for design, development, testing, & implementation of new or modified applications; commonly used query language; mathematic principles relative to assigned area of IT.

Skill in: reading comprehension & speaking; service orientation; & troubleshooting.

Ability to: interact with users & staff in non-technical, clear terms; stay current in emerging technologies in area of IT assigned & deal with problems involving several variables.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT

Core undergraduate program in computer science, information systems, mathematics, or related field, or equivalent work experience, **AND** minimum 2 years combined work experience in any combination of the following: developing and/or modifying programs for computer applications, performing testing and debugging and assisting with analysis and design.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT

Not applicable.

UNUSUAL WORKING CONDITIONS

Not applicable.

JOB TITLE	JOB CODE	B. U.	EFFECTIVE	PAY GRADE
Software Developer 2	64152 AG	47	10/19/2014	14

JOB DUTIES IN ORDER OF IMPORTANCE (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

At the intermediate level, develops software, applications, & programs by reading, writing, & extracting reports from compounded files; analyzes & designs new software & applications by working with business personnel to identify & document system software requirements; performs post production support for business applications, including routine maintenance, enhancements, & the need to perform research to aid in troubleshooting software production errors.

Tests software, applications, & programs by supporting user acceptance testing. Performs software implementation tasks, including source control & deployment activities; assists with development, implementation, & monitoring IT quality assurance standards & testing. Assists in development & documentation of appropriate standards & criteria for acceptable programming & systems development lifecycle activities.

Communicates, in both verbal & written form, on the status of development tasks; guides performance on software development per instructions; answers questions on technical topics to assist other staff in software development; obtains or imparts information from/to other technical staff & business personnel through discussion involving database, infrastructure, &/or application information. Leads discussion(s) & meetings with technical &/or non-technical personnel on simple to moderate technical topics in support of software development; conveys recommendations or conclusions for decision-making purposes in support of application development. Gathers, interprets, & applies information & answers questions from a variety of sources to aid in application development duties.

MAJOR WORKER CHARACTERISTICS

Knowledge of: utilization & purposes of management information systems; various operating systems, Internet browsers & platforms; principles of organization & project management; oral & written communication tools & techniques; customer support & personal services; office policies & procedures*, applicable laws; vision, mission, & goals of office*; software development principles & methods for design, development, testing, & implementation of new or modified applications; commonly used query language; mathematic principles relative to assigned area of IT; IT principles, methods, & practices in assigned specialty area; standard software validation tools; software distribution tools, & mechanisms; technical writing & documentation practices.

Skill in: reading comprehension & speaking; service orientation; troubleshooting; critical thinking, & complex problem solving.

Ability to: interact with users & staff in non-technical, clear terms; stay current in emerging technologies in area of IT assigned; deal with problems involving several variables; define problems, collect data, establish facts & draw valid conclusions.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT

Core undergraduate program in computer science, information systems, mathematics, or related field, or equivalent work experience **AND** minimum 3 years combined work experience in any combination of the following: designing and performing systems analysis, developing and/or modifying programs for computer applications, performing testing and debugging and assisting with analysis and design, including 2 years technology related work experience.

-Or two years experience as a Software Developer 1;

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT
Not applicable.

UNUSUAL WORKING CONDITIONS
Not applicable.

JOB TITLE	JOB CODE	B. U.	EFFECTIVE	PAY GRADE
Software Developer 3	64153AG	47	10/19/2014	15

JOB DUTIES IN ORDER OF IMPORTANCE (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)
At the advanced level, works with business personnel to analyze, design, & test applications; develops applications by performing code review. Tests & implements new &/or modified applications by creating detailed test designs & plans; creates & reviews test data for performing test scenarios; coordinates execution of unit & system test scripts; coordinates debugging efforts & defect tracking; coordinates support of user acceptance testing; coordinates application implementation & deployment tasks; leads the development, implementation, & monitoring of information technology quality assurance standards & testing; performs performance & load testing.

Documents application development tasks by writing, reviewing, & coordinating the development of application-related training materials & software user guides, program &/or application source code documentation; follows standards for acceptable programming; documents & reviews systems development lifecycle activities.

May serve as analytical & technical lead by performing impact analysis on modifications &/or improvements to software & applications; guides lower-level developers in practices & techniques.

MAJOR WORKER CHARACTERISTICS
Knowledge of: utilization & purposes of management information systems; various operating systems, Internet browsers, & platforms; principles of organization & project management; demonstrate initiative & act independently; oral 7 written communication tools & techniques; customer support & personal services; office policies & procedures*; applicable laws; vision, mission, & goals of office*; software development principles & methods for design, development, testing, & implementation of new or modified applications; commonly used query language; mathematic principles relative to assigned area of IT; IT principles, methods, & practices in assigned specialty area; standard software validation tools, software distribution tools and mechanisms; technical writing & documentation practices; systems performance management; requirements analysis principles & methods; back-up & recovery procedures; interrelationships of multiple IT specialties.

Skill in: reading comprehension & speaking; service orientation; troubleshooting; critical thinking; complex problem solving; lead work; programming software analysis & evaluation; using data recovery tools & techniques; judgment & decision making; assuring quality, & identifying & specifying business requirements.

Ability to: interact with users & staff in non-technical, clear terms; stay current in emerging technologies in area of IT assigned & deal with problems involving several variables; define problems, collect data, establish facts & draw valid conclusions; prepare meaningful, accurate, and concise reports.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT
Core undergraduate program in computer science, information systems, mathematics, or related field or equivalent work experience, **AND** a minimum of four years combined work experience in any combination of the following: designing and performing systems analysis, developing and/or modifying programs for computer applications, performing testing, debugging, and code review, and assisting with analysis and design, including 2 years technology related work experience;

-Or 4 years experience as a Software Developer 2;

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT
Not applicable.

UNUSUAL WORKING CONDITIONS
Not applicable.

JOB TITLE	JOB CODE	B. U.	EFFECTIVE	PAY GRADE
Software Developer 4	64154AG	47	10/19/2014	16

JOB DUTIES IN ORDER OF IMPORTANCE (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

At the expert level, analyzes & designs applications to ensure current &/or future business process flows are identified, defined, & documented; conducts detailed alternative analyses & determines end-user requirements; consults with end-users, technicians, vendors, management, & others. Provides post production support for applications varying in size, scope, & impact to office operations.

Tests & implements testing; assesses overall system performance & operational efficiencies; oversees performance & load testing; finalizes implementation of plans, procedures, & schedules; conducts testing perspective & coordinates improvements to enterprise testing processes. Thoroughly understands technical environments & impacts on software execution in order to identify environmental components to be reviewed for adequacy and/or conflicts.

Communicates, both verbally & in writing, answers on technical topics to assist other technical staff in application development; presents technical topics.

Oversees application development program & projects; works with high-level IT staff to design solutions that meet the office's requirements; assists in analysis of solution design; leads design reviews and/or complex initiatives and has expertise in organizational improvement; mentors lower-level developers on all aspects of application development.

MAJOR WORKER CHARACTERISTICS

Knowledge of: Utilization & purposes of management information systems; various operating systems, Internet browsers, & platforms; principles of organization & project management; demonstrate initiative & act independently; make decisions on a variety of complex matters; oral & written communication tools & techniques; customer support & personal services; office policies & procedures*; and applicable laws; vision, mission, & goals of office*; software development principles & methods for design, development, testing, & implementation of new or modified applications; commonly used query language; mathematic principles relative to assigned area of IT; IT principles, methods, & practices in assigned specialty area; standard software validation tools; software distribution tools & mechanisms; technical writing & documentation practices; systems performance management; requirements analysis principles & methods; back-up & recovery procedures; interrelationships of multiple IT specialties; cost-benefit analysis methods; IT lifecycle concepts.

Skill in: reading comprehension & speaking; service orientation; troubleshooting; critical thinking; complex problem solving; lead work; programming software analysis & evaluation, using data recovery tools & techniques; judgment & decision making; adapting to changes in technology; assuring quality; identifying and specifying business requirements, & developing & interpreting policies & strategies governing the planning & delivery of IT services.

Ability to: interact with users & staff in non-technical, clear terms; stay current in emerging technologies in area of IT assigned & deal with problems involving several variables; define problems, collect data, establish facts & draw valid conclusions, prepare meaningful, accurate, & concise reports.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT

Core undergraduate program in computer science, information systems, or related field, or equivalent work experience, **AND** a minimum of 6 years work experience in any combination of the following: providing solutions design, developing project plans with project manager or recommending approach through defining tasks and/or leading meetings relating to programs for computer applications, including 4 years technology related work experience.

-Or 6 years experience as a Software Developer 3;

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT

Not applicable.

UNUSUAL WORKING CONDITIONS

Not applicable.