



Water-Based Systems Layout (WBSL)

Major Project (Level IV)

Level IV candidates shall have completed a project demonstrating senior-level engineering technician capabilities and responsibilities. The project shall have substantial (large) scope and technical complexity. The project shall have been completed within the past 4 years and be in the subfield for which the candidate has applied. The project shall be documented in narrative/essay format in the Major Project Write-Up.

Major Project Write-Up (MPWU)

The MPWU shall be a concise, detailed, written description of the candidate's role in one major project in the candidate's certification field. The candidate shall describe the activities in which they engaged to fulfill the responsibilities of the position. The candidate shall be the sole author of the MPWU. Do not include any official project documents and/or descriptions taken from a web site, testimonials, or any other published form. These documents will not be considered as part of your MPWU. The MPWU shall include the following:

Formatting:

- Typed (single spaced, with no photographs);
- Be a minimum of 3 pages in length.

Introduction:

- Candidate's full name and NICET ID number;
- Size, cost, and start/completion dates of the project;
- Location, type, and scope of project.

Senior Level Responsibilities:

- Candidate's date(s) on project;
- Candidate's title and role;
- Demonstrate candidate's independent, senior-level engineering/technician responsibilities;
- Candidate's delegation of responsibilities of various aspects of the project;
- Candidate's position and authority, both in the field and in the office;
- Candidate's daily duties and responsibilities, both in the field and in the office;
- Number and categories of people who the candidate supervised, along with the tasks they performed.

The MPWU shall also include:

- Project start and completion dates
- Candidate's date(s) on project;
- Size of project;
 - Type of facility
 - Square footage
 - Number of stories
- Scope and complexity of project;
 - Number of sprinkler heads

- Number and types of systems
- Water supply sources
- Occupancies
- Hazards
- Hydraulic issues
- Design complications encountered and resolved
- Range/scope of activities and role in each activity.
 - Hazard analysis
 - Design calculations
 - Approvals
 - Proposals
 - System installation
 - Check-out and acceptance test(s)
 - Personnel present at final test(s)
 - Any special scheduling provided
 - Example(s) of some of the actual test(s) performed