Engineer’s Creed

As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare.

I pledge:

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the laws of man and the highest standards of professional conduct;

To place services before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations.

In humility and with need for Divine Guidance, I make this pledge.

adopted by

National Society of Professional Engineers
June 1954
The Mission of Kspe is...

To promote the ethical, competent, and licensed practice of engineering, and to enhance the professional, social, and economic well being of our members;

To advocate the application of engineering knowledge and skills for the public health, safety, and welfare;

To promote the highest standards for engineering education;

To influence public policy;

To foster society’s understand of the role of engineering;

To communicate the importance of engineering licensure;

To stimulate student interest in mathematics and science and encourage young people to enter the engineering profession;

To represent the interests of all engineering disciplines.

The Vision of Kspe is...

KSPE is the leader in development of unity and focused resources across all engineering disciplines and organizations for influence upon public, legislative, and educational issues affecting the profession.

The Goals of Kspe are...

Goal One - To support the continuing development of the individual engineer and the professional image of the engineer.

Goal Two - Align the society’s structure, activities, and governance to strengthen the society and optimize its resources.

Goal Three - Promote the profession through engineering education and community programs.

Goal Four - Maintain and enhance an effective government relations program so that the interests of the engineering professional and the general public are protected.
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GET INVOLVED IN YOUR PROFESSION
What is Leadership P.E.

Leadership P.E. is a leadership development program designed to encourage, strengthen and build the professional careers and the civic involvement of entry- and mid- to upper-level engineers. This will be accomplished through organized career-training sessions and networking with business and community contacts and peers, as well as interactive meetings with community decision makers. It will involve a cross-section of leaders or potential leaders who are active in business, education, the arts, religion, government, community-based organizations and ethnic and minority groups. It will reflect the diversity of the professional engineering community. This unique and positive image- and career-building program is design specifically to benefit persons in the engineering profession. Participation in Leadership P.E. is limited to a maximum of fifteen individuals. Participants must be either EITs or PEs. They will be selected to participate in eight specially designed leadership experiences over an eight-month period. The charter class was selected in the summer of 1998. Leadership P.E. follows the concepts developed by Leadership KY and other similar leadership programs. Leadership P.E. is the first of its kind to focus on professional engineers. As such, Leadership P.E. was designed, organized and implemented by members of the Kentucky Society of Professional Engineers (KSPE), the American Council of Engineering Companies of Kentucky (ACEC-KY) and the Kentuckiana Post of the Society of American Military Engineers (KP-SAME).

Criteria & Application

Participation in Leadership P.E. is a competitive process. It is open to all engineers who live or work in Kentucky. Typically, fifteen individuals will be selected to participate in the program each year. Only one application will be accepted from any one company or organization (and/or major division of a company or organization). A selection committee will choose the participants from a cross section of the state. Participants will be leaders and potential leaders who are active in business, education, the arts, religion, government, community-based organizations and ethnic and minority groups. They will reflect the diversity of the state. To participate, individuals must meet the following requirements: (1) individual must be a member of at least one of the organizations: KSPE, ACEC-KY or the Kentuckiana Post of SAME, (2) applicant must have been living or working in Kentucky for at least one full year, (3) applicant must have full support of the company or organization they represent, as well as their employer or supervisor and (4) applicant must attend ALL meetings or retreats.

Application for selection must be made in writing**. Interested individuals should contact the Kentucky Society of Professional Engineers (KSPE) and request a “Leadership P.E. Application.” All sections of the application must be completed. The application must be signed by both the applicant and the employer (sponsor). Two photographs, suitable for publication*, must accompany each individual application.

*Please email digital photos or send original prints only. Do not mail hard copy photos that have been printed on an inkjet or laser printer, such prints will result in poor reproduction.

**Applications must be typed.
MATHCOUNTS is a national enrichment, club and competition program that promotes middle school mathematics achievement through grassroots involvement in every U.S. state and territory.

To secure America’s global competitiveness, MATHCOUNTS inspires excellence, confidence and curiosity in U.S. middle school students through fun and challenging math programs. With the generous support of all MATHCOUNTS sponsors and volunteers, and leadership of the National Society of Professional Engineers at the local and state levels, MATHCOUNTS is providing today’s students with the foundation for success in science, technology, engineering and mathematics careers.

MATHCOUNTS Competition Information

The MATHCOUNTS Competition Program provides the extra incentive and the perfect atmosphere for students to push themselves to achieve more in mathematics. Consisting of fun and creative problems that promote critical-thinking and problem-solving skills, the MATHCOUNTS competitions have written and oral rounds, as well as individual and team components. Though challenging and non-routine, the competition problems focus on the 6th through 8th grade standards of the National Council of Teachers in Mathematics.

MATHCOUNTS provides the materials for teachers and students to use as they prepare for the Competition Program. Participants advance through School, Chapter and State Competitions until the final 224 students are selected from 56 states and territories to advance to the MATHCOUNTS National Competition held each May. The National Competition adds an additional individual component called the Masters Round.

In Kentucky, MATHCOUNTS competitions are held at both the chapter and state levels. Depending on participation numbers, those who win at the chapter level then advance to the state competition. The chapter level competition consists of a handwritten test, split into the sprint round (50 questions), four target rounds (8 questions total), team round (10 questions assigned to a team of four from each school) and the countdown round (head to head matchups with time limits).

For the Kentucky MATHCOUNTS State Competition, students who have advanced are invited to attend Friday Night Activities at the hotel where the competition is held on Saturday, where they can enjoy food, beverages, and some type of entertainment which varies from year to year. Then on Saturday the actual MATHCOUNTS competition begins. The students (or “Mathletes”, as they are called) participate in tests of knowledge just as during the chapter competitions described above.

In Kentucky, the MATHCOUNTS program is funded by the Kentucky Engineering Foundation and MATHCOUNTS Fundraising.

NOTE: If you are interested in volunteering to help with state or chapter MATHCOUNTS competitions, please contact the Kentucky Engineering Staff at 800-455-5573 or email us at mathcounts@kyengcenter.org.
Project Lead The Way (PLTW) is the leading provider of rigorous and innovative STEM (Science, Technology, Engineering, Mathematics) education curricular programs used in middle and high schools across the U.S.

STEM education is at the heart of today’s high-tech, high-skill global economy. For America to remain economically competitive, our next generation of leaders -- the students of today -- must develop the critical-reasoning and problem-solving skills that will help make them the most productive in the world.

PLTW’s comprehensive curriculum for engineering and biomedical sciences has been collaboratively designed by PLTW teachers, university educators, engineering and biomedical professionals and school administrators to promote critical thinking, creativity, innovation and real-world problem solving skills in students.

The hands-on, project-based engineering and biomedical sciences courses engage students on multiple levels, expose them to areas of study that they typically do not pursue, and provide them with a foundation and proven path to college and career success. The curriculum, delivered through PLTW’s Virtual Academy, is provided free of charge to schools that register with PLTW. Classroom equipment -- computer software and kits for hands-on activities -- along with teacher training, which is required, are the only costs related to the program.

The PLTW curriculum is founded in the fundamental problem-solving and critical-thinking skills taught in traditional career and technical education (CTE), but at the same time integrates national academic and technical learning standards and STEM principles, creating what U.S. Secretary of Education Arne Duncan calls one of the “great models of the new CTE succeeding all across the country.” PLTW was recently cited by the Harvard Graduate School of Education as a “model for 21st century career and technical education.”

More than 350,000 students in nearly 4,000 schools in all 50 states plus Washington, D.C., are currently taking PLTW courses.

PLTW is a non-profit organization with 501(c)(3) tax-exempt status and based in Clifton Park, New York.*

KSPE’s Involvement

In Kentucky, KSPE Chapters provide funding and volunteer to assist with the Project Lead The Way Program. Some funding from the Kentucky Engineering Foundation are contributed to the Project Lead The Way Program as well. There is also a committee dedicated solely to the Project Lead The Way program to investigate ways to assist and get even more involved in the Project Lead The Way Program.

*excerpt from above was taken from the Project Lead The Way program website (http://pltworg)
Governor’s Scholars

The Governor’s Scholars Program is a summer residential program for outstanding high school students in Kentucky who are rising seniors. The Program originated in 1983 as a result of Kentucky leaders’ concern that the state’s “best and brightest” were leaving the Commonwealth to pursue educational and career opportunities elsewhere without fully understanding the potential of their talents at home. Students who are selected attend the Program without charge. In the spirit of partnership, the Office of the Governor, the Kentucky State Legislature, and private enterprise come together to provide the financial support for the Program.

The Program’s mission is to enhance Kentucky’s next generation of civic and economic leaders. The first class numbered 230 and was housed on one college campus. Since then, the Program has enjoyed excellent support and grown to over 1,000 students on three campuses.

Host campuses are determined competitively every three years. The 2010 session are to be hosted by Bellarmine University in Louisville, Murray State University in Murray, and Centre College in Danville. The core curriculum for these summer sessions is threefold:

- Focus Area: a “major” subject of study, assigned according to scholar preference as indicated on the application.
- General Studies: an area of study assigned by staff to challenge the scholars. Courses frequently include service-learning components in the community.
- Seminar: a discussion-based small group session. Emphasis is placed on respectful debate and discussion. Scholars are encouraged to ask probing questions.

Faculty and staff also invite a variety of speakers and performers from a range of disciplines and pursuits to visit campus. Carefully organized field trips, special events, and a film series also contribute to the comprehensive educational atmosphere in which scholars are challenged not only to examine, but, more importantly, to nurture their sense of learning and leadership.

In order to participate in the Program, students must be nominated by their high schools and then compete on a state-wide level. Selection for the program is highly competitive, with an application process similar to that of prestigious colleges and universities. In addition to an academic profile that includes difficulty of course load, GPA, and at least one standardized test score, the application requires an outline of all extracurricular activities, a history of volunteer service, and a list of job positions held. Teacher recommendations include both quantitative evaluation and qualitative descriptions of the student’s performance and potential. The final component of the application is an original essay.*

KSPE’s Involvement

In Kentucky, KSPE Chapters provide funding and volunteer to assist with the Governor’s Scholars Program. There is also a committee dedicated solely to the Governor’s Scholars program to investigate ways to assist and get even more involved in the Governor’s Scholars Program.

*excerpt from above was taken from the Kentucky Governor’s Scholars program website (http://gsp.ky.gov)
Kentucky Engineering Foundation

KEF, the KENTUCKY ENGINEERING FOUNDATION is a 501(c)3 corporation founded in 1971 by the Kentucky Society of Professional Engineers (KSPE) for the purpose of supporting the educational programs sponsored by engineers in the Commonwealth of Kentucky. The members of the Kentucky Society of Professional Engineers (KSPE) are also members of KEF.

Programs associated with KEF include:

- **MathCounts** - Math competition for middle school students
- **Leadership PE** - Leadership Program for Engineers
- **Kentucky Engineers’ Golf Classic**
- **KYTC/ACEC-KY Partnering Conference**
- **SAME-Kentuckian Post Fund** (Society of American Military Engineers)
- **KSPE Louisville Chapter Scholarship Fund**
- **PLTW - Project Lead The Way**
- **George M. Binder KSPE Scholarship**

The Mission of the Kentucky Engineering Foundation

The Kentucky Engineering Foundation (KEF) is dedicated to educational and professional activities that encourage individuals to achieve their potential as productive workers and as informed citizens. KEF is committed to the belief that the engineering profession continues to make a vital contribution to the quality of life of all Kentuckians.
Kentucky Engineers’ Golf Classic

Every year the KSPE Golf Classic Committee puts together the Kentucky Engineers’ Golf Classic outing to act as a fundraising event for the Kentucky Engineering Foundation. With proceeds from the previous events, the Golf Classic has been able to help retire the debt on the Kentucky Engineering Center building and if you’ve been by the Kentucky Engineering Center over the last few years, you have undoubtedly seen or heard about the Training Facility in the lower level of the building. Your participation and support of the Golf Classic is important as we continue to make the Training Facility a “state of the art” classroom and meeting space.

The Kentucky Engineers’ Golf Classic always provides a great opportunity to have fun, network and contribute to a Foundation that does so much for current and future engineers in Kentucky, so you don’t want to miss it!

JOIN US at the KSPE Annual Convention

Every April at various locations around Kentucky
Name: ______________________   Email: ______________________   Phone Number: ______________________

**I would be interested in assisting with the following program(s):**

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<th>Leadership P.E.</th>
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<td>MATHCOUNTS</td>
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<tr>
<td>Project Lead The Way</td>
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<td>Governor’s Scholars</td>
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**I would be interested in serving on the following committee(s):**

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<th>Leadership P.E.</th>
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<td>Professional Development</td>
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<td>Ethical Practices</td>
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<td>Annual Convention</td>
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<td>KEC Building</td>
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<td>Constitution &amp; Bylaws</td>
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<td>Scholarship</td>
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<td>Legislative &amp; Governmental Affairs</td>
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**Ideas I Have For New Initiatives:**

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*Send this sheet to us via email to kspe@kyengcenter.org or via mail: KSPE, 160 Democrat Drive, Frankfort KY 40601*
ABOUT YOUR PROFESSION
Continuing Professional Development Regulations

201 KAR 18:196. Continuing professional development for engineers.

RELATES TO: KRS 322.180(3), 322.190, 322.290(16)
STATUTORY AUTHORITY: KRS 322.290(16)
NECESSITY, FUNCTION, AND CONFORMITY: KRS 322.290(16) requires the board to adopt a program of continuing education for professional engineers. This administrative regulation establishes requirements for the continuing professional development program mandated by KRS 322.290(16) for professional engineers.

Section 1. Definitions. (1) “Continuing professional development” or “CPD” means participation in activities beyond the basic educational requirements that:
   (a) Provide specific content to improve the professional engineer’s competence;
   (b) Encourage acquisition of new skills and knowledge required to maintain competence;
   (c) Strengthen the professional engineer’s critical inquiry and balanced judgment;
   (d) Raise the ethical standards within the professional community; and
   (e) Meet the requirements established by the provisions of this administrative regulation.
(2) “Dual licensee” means a person licensed as both a professional engineer and a professional land surveyor.
(3) “Licensee” means a person licensed as a professional engineer.
(4) “Professional development hour” or “PDH” means not less than fifty (50) minutes of instruction or presentation that meets the requirements of this administrative regulation.
(5) “Reporting period” means the two (2) calendar years preceding the June 30 deadline for renewal of license.

Section 2. Program Structure. (1) Except as provided in Section 6 of this administrative regulation, a licensee shall complete a minimum of thirty (30) PDH units each reporting period.
(2) If a licensee exceeds the requirement, a maximum of fifteen (15) PDH units may be carried forward to the next reporting period.
(3) PDH units earned by a dual licensee under this administrative regulation may also be used to meet the land surveyor requirements under 201 KAR 18:192 if the PDH units meet the requirements of that administrative regulation.
(4) Failure to earn the required PDH units shall constitute unprofessional conduct.

Section 3. Criteria for Professional Development. (1) Continuing education hours applicable to the renewal of the license shall be directly related to the professional growth and development of the professional engineer.
(2) PDH units may be earned by successful completion of the following activities:
   (a) College courses;
   (b) Continuing education courses;
   (c) Correspondence, televised, videotaped, distance learning, and other short course or tutorials;
   (d) Presenting or attending seminars, in-house courses, workshops, or professional or technical presentations made at meetings, conventions, or conferences;
   (e) Teaching or instructing in paragraphs (a) through (d) of this subsection;
   (f) Authoring published papers, articles, books, or accepted licensing examination items; and
   (g) Active participation in professional or technical societies as authorized in Section 4(6)
(3) In order to qualify for credit, activities described in subsections (1) and (2) of this section shall:
   (a) Be relevant to the practice of engineering;
   (b) Contain technical, ethical, or managerial subjects;
   (c) Be an organized program of learning;
(d) Be conducted by individuals with education, training, or expertise; and
(e) Not include in-service training, orientation to specific institutional policies and practices, or time used to sell or advertise a product.

(4) CPD activities shall earn credit only if substantially different from a course for which credit was granted in the previous two (2) calendar years.

(5) PDH units shall be converted as follows:
(a) One (1) university semester hour shall equal forty-five (45) PDH units.
(b) One (1) university quarter hour shall equal thirty (30) PDH units.
(c) For teaching an activity established in Section 3(2), multiply the number of PDH units earned by participants for that activity by two (2).
(d) Each published paper, article, or book shall equal ten (10) PDH units.
(e) Active participation in professional or technical society shall equal two (2) PDH units for each organization.

Section 4. Determination of Credit. (1) Credit for college or university courses shall be based upon course credit established by the college or university.
(2) Credit for qualifying seminars and workshops shall be based upon one (1) PDH for each fifty (50) minutes of instruction or presentation.
(3) Attendance at qualifying programs presented at professional or technical society meetings shall earn PDH units for the actual time of each program.
(4) Credit for correspondence, televised, videotaped, distance learning, and other short courses or tutorials shall be the equivalent PDH units recommended by the program author subject to board review.
(5) Teaching credit shall be valid for teaching a course or seminar for the first time only.
(a) Credit for active participation in professional or technical societies shall require that the licensee serve as an officer committee chair of the organization.
(b) PDH units shall not be earned until the end of each year of service is completed.

Section 5. Recordkeeping. (1) The licensee shall be responsible for maintaining records used to support PDH units claimed.
(2) Records required include:
(a) A log showing the date of the activity, sponsoring organization, location, activity title, description, presenter’s name, and PDH units earned; and
(b) Attendance certification records in the form of completion certificates or other documents supporting evidence of attendance.

Section 6. Exemptions and Extensions. (1) A licensee shall be exempted from continuing professional development requirements for the calendar year in which initially licensed by the board.
(2) An individual who has selected inactive or retired status shall be exempt from the requirements of this administrative regulation.
(3) A licensee who is unable to satisfy the CPD requirement because of physical disability, illness, or other extenuating circumstance shall be exempted for the reporting period in which the disability, illness, or extenuating circumstance occurs.
(4) The board shall grant an extension of time to fulfill the CPD requirement for an extenuating circumstance.
(5) An exemption or extension request shall be made in writing with supporting documentation.

Section 7. Reinstatement. Before a license shall be reinstated by the board, a former licensee shall earn the PDH units required for each reporting period the license was revoked, suspended, or expired, up to a maximum of sixty (60) PDH units.

Section 8. Reporting. (1) On the biennial renewal form, a licensee shall certify whether or not the licensee has met
the requirements of this administrative regulation.

(2) Biennial renewal forms received after September 1 shall be subject to the audit process established in Section 9 of this administrative regulation.

Section 9. Audits. (1) Compliance with the CPD requirements shall be determined through a random selection process in which a computer program shall select five (5) percent of the licensees filing biennial renewal forms on or before September 1 of that year.

(2) A licensee who is the subject of an investigation pursuant to KRS 322.190 shall be subjected to the audit requirements of this section.

(3) A licensee selected for audit shall provide the board with documentation as described in Section 5 of this administrative regulation within thirty (30) days of the board’s request.

(4) If the board disallows credit due to the activity not meeting the requirements of Section 3(2) of this administrative regulation, or if the PDH units reported are less than thirty (30), the licensee shall have 180 calendar days after notification to substantiate the original claim or earn other PDH units to meet the requirement.

(5) Failure to comply with the CPD requirements shall be considered a violation of KRS 322.180(3) subjecting the licensee to disciplinary action.

(6) An audit resulting in a determination of noncompliance shall subject the licensee to an automatic audit the next reporting period and each subsequent reporting period until an audit results in a determination of compliance.

(34 Ky.R. 1299; 1705; eff. 2-1-2008, 2206; 2390; eff. 6-6-2008.)
The Kentucky State Board of Licensure for Professional Engineers and Land Surveyors (KYBOELS) is an agency of the Governor’s Office for the Commonwealth of Kentucky. The KYBOELS was established by an Act of the Kentucky General Assembly for the purpose of protecting the public health, safety, and welfare. This is accomplished through the licensing and monitoring of individuals and firms deemed qualified to practice.

Among the services KYBOELS provides to engineers and surveyors and the public are: licensure, reciprocity, examinations, and investigations and regulatory compliance. Contrary to a common misconception, KYBOELS is not associated with KSPE. However, KYBOELS resides in the Kentucky Engineering Center as a leasee of KSPE.

Statutes and regulations regarding engineering and surveying law in Kentucky are available on the KYBOELS website. If you have specific questions not addressed through the website, please contact the board office.

Renewal Information

- Individual licenses expiring 6/30/2011 can now be renewed online.
- Individuals with Last Name A - K are required to renew their license every odd year by June 30.
- Individuals with Last Name L - Z are required to renew their license every even year by June 30.
- Individual renewal notices are typically mailed in early May and firm renewal notices are mailed in November. Please make sure the Board of Licensure are made aware of any changes of address.
- Paper renewal forms are no longer mailed. The online system is to be used for individual and firm renewals.
- Firm permits expiring 12/31/2010 can still be renewed online until 12/31/2011.
- Firms are required to renew their permit every year by December 31.

Renewal Fees:

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<tr>
<th>Individuals - Land Surveying</th>
<th>Individuals - Engineering</th>
<th>Firms</th>
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<tr>
<td>Renewal: $150.00</td>
<td>Renewal: $150.00</td>
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<td></td>
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<td>Land Surveying Renewal: $100.00</td>
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Stamp Information

KRS 322.340 requires every licensee to have an embossed metallic seal or a rubber stamp. Samples are depicted below. The minimum sizes are 1 3/8” for the engineering seal or stamp (maximum size of 1 5/8”) and 1 1/4” for the surveying seal or stamp (maximum size 1 1/2”).
Qualifications Based Selection

The Correct Way to Select an Engineer

Use of the proper selection process when seeking to engage an Engineer will yield:

- A unique relationship with a trusted advisor
- Additions to your team’s special experience and competence
- Someone whose mission it is to solve your problem/meet your needs
- A Professional who has the expertise to search out innovative, alternative approaches for your project

The selection of an Engineer is one of the most important decisions that will be made throughout the process of completing a successful project. This statement also applies to the selection of architects, land surveyors, and related professional services.

Design has a major impact on all other costs related to the project, even though the cost of engineering services for the average project represents less than one percent of the total lifetime cost of construction, operation and maintenance. Investing in quality design services at the outset of the project often results in significant long-term savings. The quality of the services provided by the design engineer is the single most important factor in determining the overall construction costs and life-cycle cost of a project.

Cost-effective problem solving and high-quality design can only be achieved with competence and experience. The proven process that best helps owners find the design consultant most qualified for their project is known as Qualifications Based Selection (QBS). It is the time-proven method endorsed by federal, state, and local governments as well as organizations. QBS, required for federal and federally funded construction projects, by at least 44 states, many local agencies and many private sector owners and institutions, has a long and positive history.

Cheap design is expensive. Selecting a designer based on qualifications will enable the most qualified consultant to apply technical knowledge and relevant project experience to develop a functional and cost effective project designed to meet the intended needs.

Qualifications Based Selection is a competitive contracting process that includes public announcement of projects, full and open competition, and careful review of firms’ capabilities, experience, technical skill and personnel. Fee negotiations with the most qualified firm begin only after a mutually agreed and detailed scope of work is drafted.

Perhaps the most important aspect related to the use of the QBS process in procuring design services is the unique relationship which it creates. When a design professional is selected based on qualifications, competency and experience they become an extension of the owner’s staff and provide the opportunity for innovative approaches and alternative methods as you work together to determine the precise scope of the project. The most effective use of
Qualifications Based Selection (QBS) is an objective, flexible procedure for obtaining engineering, architectural and related professional services for projects. The QBS process is helpful to frequent users of design services as well as one-time users with little or no past experience in working with design professionals. QBS provides owners with a selection process that is straightforward and easy to implement, is objective and fair, can be well documented, and is open to public scrutiny.

QBS describes a general competitive contracting process that includes public announcement of projects, full and open competition, and careful review of firms’ capabilities, experience, technical skills and personnel. When using QBS, in addition to delivering quality projects, government agencies safeguard the public while being accountable to taxpayers. Selection of design professionals using qualifications accomplishes these goals.

How Does QBS Work?

The owner prepares a preliminary scope of work – that is, the owner describes the project to be built or the problem to be solved.

The owner then invites design professionals to submit statements of qualifications for this project. Statements of qualifications are reviewed and evaluated based on specific evaluation criteria. A short list of firms is selected for further consideration. These firms are interviewed and ranked based on a scoring system. The top ranked firm is notified of its selection for the project, and the owner and selected firm open discussions leading to agreement on a final scope of services and a contract between the two parties.

Why use QBS?

• Federal Law requires its use. The Brooks Act, Public Law 92-582; reaffirmed by Public Law 100-464; included in transportation (T-21), aviation (Air-21) legislation and Superfund; soon to be included in Federal water acts.

• Kentucky State Law requires its use. KRS 45A requires the use of QBS when procuring Engineer, Architect or Engineering-related services (“…specialized professional services . . .that are involved in the planning, design, construction, maintenance, or operation of Kentucky’s transportation systems or construction projects. . .”)

• QBS is endorsed by the APWA (American Public Works Association) which represents the owners who procure engineering services. APWA publication ‘Selection and Use of Engineers’ — the “public’s best interest is served when governmental agencies select architects, engineers, and related professional technical consultants for project and studies through QBS procedures. Basing selection on qualifications and competence (rather than price) fosters greater creativity and flexibility, improves the delivery of professional services, increases the value to the owner in construction and life cycle expenses, and minimizes the potential for disputes and litigation.”

• QBS is recommended by the ABA (American Bar Association) in its model procurement code for
state and local governments. “The principal reasons supporting this selection procedure for architect, engineer and land surveying services are the lack of a definitive scope of work for such services at the time the selection is made, and the importance of selecting the best qualified firm. In general, the architect, engineer, or land surveyor is engaged to represent the (state) interest and is, therefore, in a different relationship with the (state) from that normally existing in a buyer-seller situation. For these reasons, the qualifications, competence, and availability of the most qualified architect, engineer or land surveyor firm is considered initially, and price negotiated later.”

• It works—the owner gets a personal advisor on their team, the project is designed specifically to meet the intended need and use, it results in lower life cycle cost for the project.

• Most importantly, it means that our buildings, bridges, roadways, water and waste water facilities and other projects will be designed in the most competent and cost effective manner, not only for today, but also for the future. QBS is in the best interest of the safety and welfare of the public.

The QBS Process

Step 1 - Select The Best Qualified Firm
• Prepare a description of the project and develop evaluation criteria
• Solicit Statement of Qualifications from interested firms
• Develop a Short List of firms, investigate and evaluate firms
• Interview firms and rank them

Step 2 - Jointly Define Scope and Contract, With The Highest Ranked Firm - Taking Advantage of The Selected Firms Experience and Expertise
• Invite the highest ranked firm to assist in defining the scope of work (Discussions should include the Owner’s goals and concepts of the for the project, the designers approach to the project as well as any alternatives which should be considered)
• Establish contract terms
• Reach agreement (If agreement cannot be reached, return to the beginning of Step 2 and proceed with the next highest ranked firm)

Step 3 - Retain the Firm Based On An Acceptable Proposal
• Ask for fee proposal
• Reach agreement on fee and contract terms (If agreement cannot be reached, return to the beginning of Step 2 and proceed with the next highest ranked firm)
• Retain the firm and enter into written contract
Order of the Engineer

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

The first ceremony was held on June 4, 1970 at Cleveland State University. Since then, similar ceremonies have been held across the United States at which graduate and registered engineers are invited to accept the Obligation of the Engineer and a stainless steel ring. The ceremonies are conducted by Links (local sections) of the Order.

The Order is not a membership organization; there are never any meetings to attend or dues to pay. Instead, the Order fosters a unity of purpose and the honoring of one’s pledge lifelong.

The Obligation is a creed similar to the oath attributed to Hippocrates (460-377 B.C.) that is generally taken by medical graduates and which sets forth an ethical code. The Obligation likewise, contains parts of the Canon of Ethics of major engineering societies. Initiates, as they accept it voluntarily, pledge to uphold the standards and dignity of the engineering profession and to serve humanity by making the best use of Earth’s precious wealth.

The Obligation of the Order of the Engineer is similar to the Canadian “Ritual of the Calling of an Engineer” initiated there in 1926. It uses a wrought iron ring, conducts a secret ceremony, and administers an oath authorized by Rudyard Kipling. The extension of the Ritual outside Canada was prevented by copyright and other conflicting factors. The basic premise, however, was adapted for the creation of the Order of the Engineer in the United States in 1970.

The Obligation

I am an Engineer. In my profession I take deep pride. To it, I owe solemn obligations.

Since the Stone Age, human progress has been spurred by the engineering genius. Engineers have made usable nature’s vast resources of material and energy for Humanity’s [Mankind’s] benefit. Engineers have vitalized and turned to practical use the principles of science and the means of technology. Were it not for this heritage of accumulated experience, my efforts would be feeble.

As an Engineer, I pledge to practice integrity and fair dealing, tolerance and respect, and to uphold devotion to the standards and the dignity of my profession, conscious always that my skill carries with it the obligation to serve humanity by making the best use of Earth’s precious wealth.

As an Engineer, [in humility and with the need for Divine guidance,] I shall participate in none but honest enterprises. When needed, my skill and knowledge shall be given without reservation for the public good. In the performance of duty and in fidelity to my profession, I shall give the utmost.

Note: Brackets indicate the original wording of the Obligation. Either wording is acceptable, but new certificates have the newer wording.*

*excerpt from above was taken from the Official Order of the Engineer website (http://www.order-of-the-engineer.org)
Ashland Chapter - includes the following counties: Mason, Lewis, Carter, Greenup, Boyd, Fleming, Rowan, Elliott, and Lawrence.

Bluegrass Chapter - includes the following counties: Robertson, Harrison, Nicholas, Bourbon, Fayette, Clark, Montgomery, Bath, Jessamine, Garrard, Madison, Estill, Powell and Menifee

Capital Chapter - includes the following counties: Owen, Henry, Shelby, Franklin, Scott, Anderson, Woodford, Mercer, and Boyle

Green River Chapter - includes the following counties: Union, Henderson, Daviess, Hancock, Webster, McLean, Ohio, Hopkins, Muhlenberg, Christian and Todd

Kentucky Lake Chapter - includes the following counties: Ballard, McCracken, Livingston, Crittenden, Carlisle, Graves, Hickman, Fulton, Marshall, Calloway, Trigg, Lyon and Caldwell

Kentucky River Chapter - includes the following counties: Wolfe, Lee, Breathitt, Owsley, Perry, Knott, Letcher and Leslie

Louisville Chapter - includes the following counties: Oldham, Jefferson, Bullitt and Spencer

Mammoth Cave Chapter - includes the following counties: Grayson, Butler, Edmonson, Logan, Warren, Barren, Metcalfe, Simpson, Allen and Monroe

My Old Kentucky Home Chapter - includes the following counties: Breckinridge, Meade, Hardin, Larue, Nelson, Washington, Marion, Taylor, Green and Hart

Northern Kentucky Chapter - includes the following counties: Trimble, Carroll, Gallatin, Boone, Kenton, Campbell, Grant, Pendleton and Bracken

Big Sandy Chapter - includes the following counties: Morgan, Magoffin, Floyd, Johnson, Martin and Pike

Cumberland Falls Chapter - includes the following counties: Cumberland, Adair, Russell, Clinton, Casey, Lincoln, Wayne, Pulaski, Rockcastle, Jackson, Laurel, McCreary, Whitley, Knox and Clay

Pine Mountain Chapter - includes the following counties: Bell and Harlan