

**INCLUDES  
FIELD EXEMPLAR  
APPENDIX**

**Program  
Faculty**

**School  
Districts**

# Principal Preparation Program Self-Study Toolkit

(For use in developing, assessing, and improving principal preparation programs)

- Candidate Admissions
- Course Content
- Pedagogy-Andragogy
- Clinical Practice
- Performance Assessment
- Graduate Performance Outcomes

**State Education  
Associations**

**Aspiring School  
Principals**

The Wallace Foundation generously supports this work.

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Suggested citation: King, C. (2018). *Quality Measures™ principal preparation program self-study toolkit: For use in developing, assessing, and improving principal preparation programs* (10<sup>th</sup> ed.). Waltham, MA: Education Development Center, Inc.

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## Introduction

The 10<sup>th</sup> edition of Quality Measures™ represents a milestone in more than a decade of EDC work with school districts and principal preparation programs across the country, working to prepare principals to lead chronically low performing schools, with an end goal of improving student achievement. Substantial changes in QM content, format, and methods are reflected in this edition and are in direct response to feedback from users as well as insights gleaned from our own observations of user implementation over the course of the past two years with a diverse pool of programs and school districts.

It is with sincere appreciation that we extend our thanks to The Wallace Foundation, whose generous funding supported the production of this 10<sup>th</sup> edition of QM as part of the launch of the University Principal Preparation Initiative (UPPI) in the fall of 2016. UPPI programs from Albany State University, Virginia State University, Florida Atlantic University, San Diego State University, University of Connecticut, Western Kentucky University, and North Carolina State University – engaged their self-study teams in the collection of baseline program data using Quality Measures™ tools and protocols in partnership with affiliated school district staff.

We would also like to acknowledge survey feedback received from school district identified preparation programs that conducted self-studies in partnership with their affiliated school districts as an initial step in their partner collaboration efforts.

Members of the National Training Provider-Principal Graduate Professional Learning Community (TPPG PLC) were another important contributing source to this edition of the Quality Measures™ toolkit. Contributions included, but were not limited to, careful review and feedback on Professional Standards for Educational Leaders (PSEL, 2015) as part of a 2016 PLC session in Massachusetts.

Additional contributors included members of the first training cohort of QM Facilitators who co-facilitated self-studies with non-Wallace funded principal preparation programs as part of their training and provided feedback and suggestions for improving tools and processes.

Finally, it is with heartfelt gratitude that I acknowledge Melissa Lin. Her countless hours of tool editing and formatting, self-study meeting coordination and scheduling, information and materials management, and exemplar catalogue design and population have supported the evolution of Quality Measures™ since 2009. Her talented support has been a consistent source of both inspiration and aspiration to QM users, trainers, facilitators, and developers.

Cheryl L. King, QM Principal Investigator  
Education Development Center, Inc.



## Overview

Education Development Center, Inc., funded by The Wallace Foundation, is pleased to introduce the 10<sup>th</sup> edition of Quality Measures™ evidence-based tools and protocols. The QM toolkit is intentionally designed to be a *self-led, analytic, and topic-specific resource* for use in the critical self-examination, reflection, and peer review of principal preparation program effectiveness.

### Highlights and New Resources

The 10<sup>th</sup> edition of the QM toolkit reflects several important changes that respond to new research findings, performance standards for education leaders, and feedback from QM program and school district partners. Among the more noticeable changes is a return (by popular demand) to a rubric format and developmental level continuum. Also incorporated, as part of the 10<sup>th</sup> edition, is more detailed guidance on assembling supporting evidence that includes: levels of evidence strength, types of evidence, descriptions for each type, and illustrative examples. In addition to these changes, this edition of the tool includes: selected references that are organized by domain, the QM theory of change, and an “at a glance” look at QM domains and indicators.

### Research Base and Performance Standards

QM tools are grounded in the seminal research of Linda Darling-Hammond on exemplary principal preparation practices. QM rubric indicators and criteria describe the characteristics associated with effective practices from the literature and empirical research on adult transformational pedagogy. In addition, indicators and criteria are tightly linked to **Professional Standards for Educational Leaders (PSEL)**.

### Rubric Organization and Rating Continuum

This Quality Measures™ toolkit includes a rubric for each of the following program domains: 1) *candidate admissions*, 2) *course content*, 3) *pedagogy-andragogy*, 4) *clinical practice*, 5) *performance assessment*, and 6) *graduate performance outcomes*. Each domain identifies specific indicators of effective practice and criteria. Rubrics provide a detailed description of indicators and performance criteria for each program domain. A four-level performance continuum allows teams to examine their program practices against indicator criteria at each level of the continuum to determine the degree to which their program meets the stated criteria for a particular level.

### Evidence-Based Protocol

QM uses an interactive facilitated process to complete the program self-study. Self-study teams are typically comprised of program faculty, affiliated school district representatives, and other program stakeholders. Beginning with a facilitated orientation session, the self-study typically consists of four parts: 1) a general information session that introduces Quality Measures™ to an audience of potential users; 2) an orientation session for teams, interested in completing a program self-study, to build a shared understanding of QM domains as well as indicators of effectiveness and criteria, and to brainstorm examples of evidence of effective practices; 3) the presentation of evidence and self-scoring session that is typically held when teams have completed preliminary self-ratings for each program domain and assembled supporting evidence and, following the presentation of evidence for each domain, the team makes final determinations about rating levels; and 4) a presentation of findings and recommendations for team consideration on where to focus intervention efforts.

The four parts of an effective self-study process are typically scheduled as follows:

- The **general information session** is typically a one-hour session designed for programs, districts, and policy makers interested in learning more about the QM self-study process as a way to support continuous improvement activities. This session is often conducted virtually in order to accommodate larger audiences of potential users who may be in different locations.
- The **orientation session** is usually a 2- to 3-hour meeting that is intended for programs, districts, and policy makers who have decided to participate in the QM self-study process and have assembled a self-study team to lead the process. The session is designed to familiarize teams with QM tools and protocols, indicators and rating criteria, and the process for assembling evidence and completing preliminary ratings. Teams also use this time to finalize plans for the evidence review and final rating session.
- The **evidence review and rating session** is often divided into more than one sitting in order to allow adequate time for teams to review evidence and rate each domain (suggest a minimum of 1-2 hours for each domain). For example, teams may choose to review all six domains in one day, or divide the review into two half-day sessions and review three domains on one ½ day and three on another ½ day.
- The **report of findings and improvement planning session** is most effective if agendas are planned to allow time for a discussion of findings, targeting areas for intervention, and conducting some preliminary planning for next steps.

### **QM Process Facilitation**

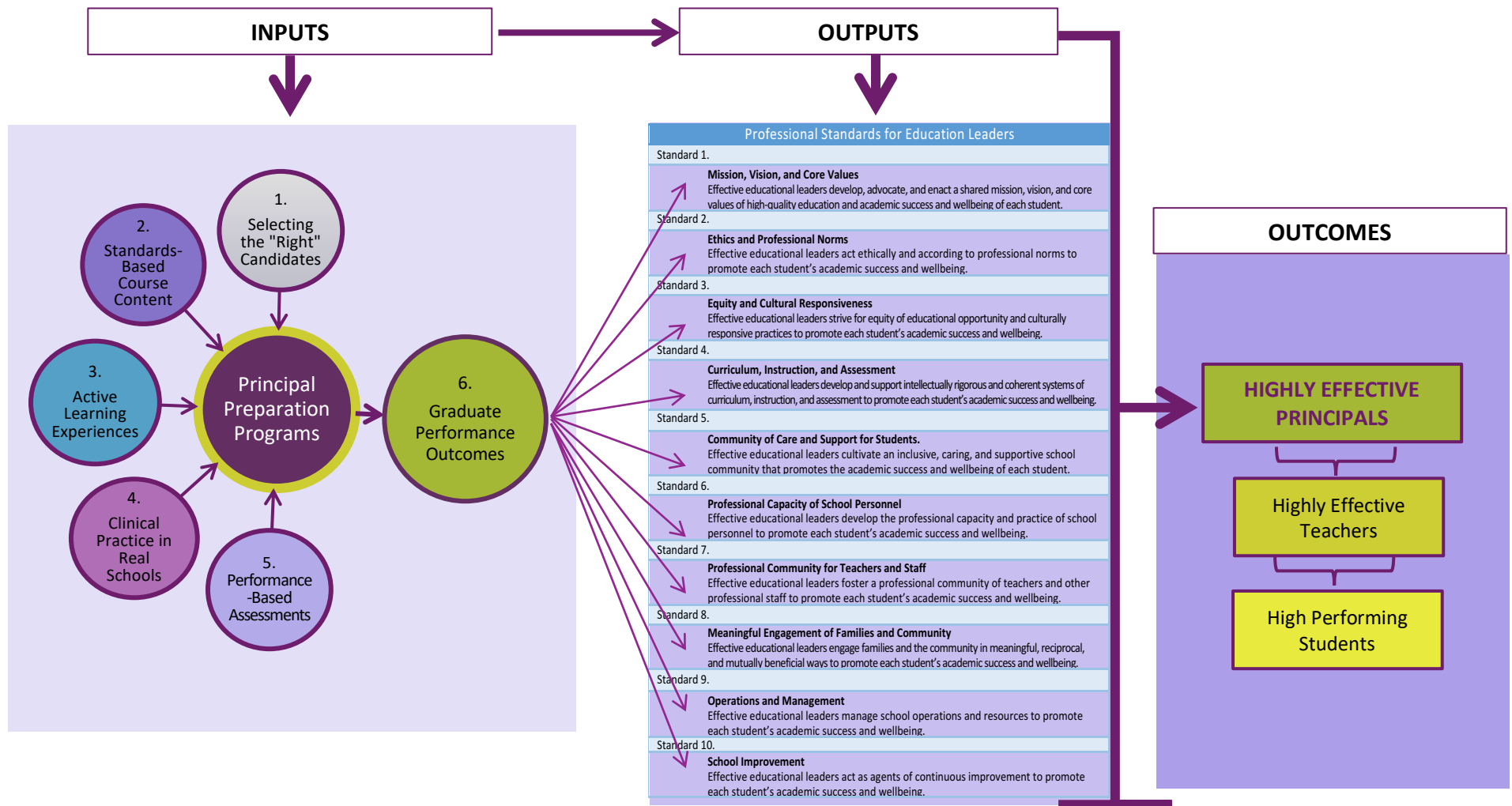
Quality Measures offers users the option of having a trained QM facilitator to moderate the process for conducting the complete program self-study from a position of neutrality. Based on responses from QM users, choosing to use a trained QM process facilitator to support the program self-study has proven to be an invaluable resource in helping self-study teams to:

- Understand the goals, objectives, and process for conducting a QM program self-study
- Plan how to accomplish objectives within a specified timeframe (roles, responsibilities, logistics, group process norms)
- Manage difficult conversations and differences of opinion using specific protocols
- Submit self-study data for organization and interpretation using QM electronic platform
- Understand initial reports of findings, conclusions, and recommendations for next steps
- Access examples of exemplary practices electronically using the QM Exemplar Catalogue

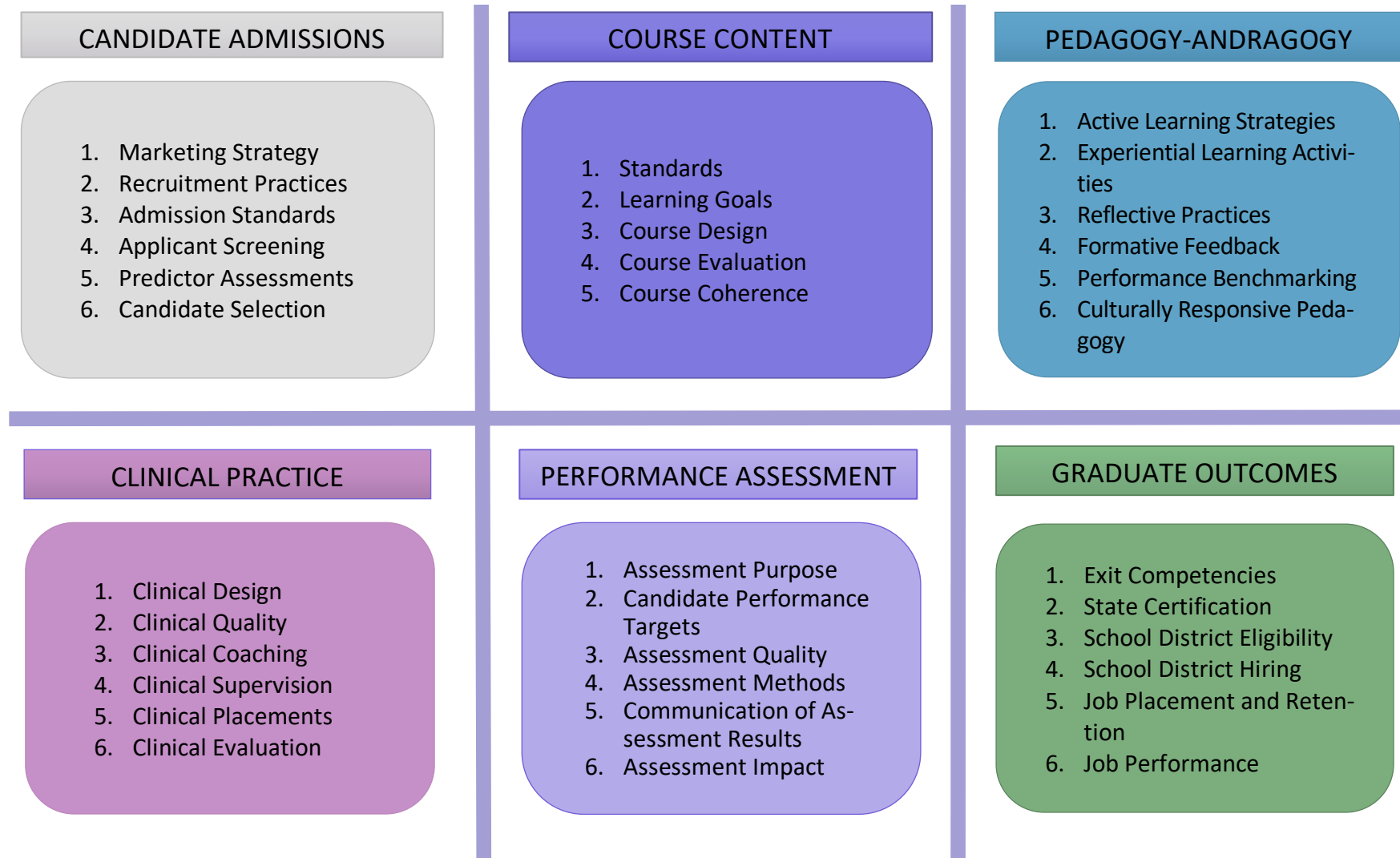
Under certain conditions, a program may opt to independently use the QM toolkit to engage in a program self-study without the support of a trained QM facilitator. For example, a program may have already completed a professionally facilitated process and is interested in using the tool as a resource for team discussions of selected program domains. The tool can also be used effectively as a framework for program design/redesign. The complete Quality Measures Toolkit is an open source document that can be downloaded from [www.edc.org](http://www.edc.org) or [www.wallacefoundation.org](http://www.wallacefoundation.org) for independent use by program teams.

For more information about enlisting the support of a trained QM facilitator to work with your self-study team, please contact the Quality Measures Center at [qmcenter@edc.org](mailto:qmcenter@edc.org).

## Operating Theory of Change



## Program Domains and Indicators at a Glance



## QM Evidence Strength Continuum

Indicators for each domain are rated on a four-point scale. A rating of 4.0 indicates that the program meets *ALL* of the criteria for the specific indicator. A rating of 3.0 indicates that the program meets *MOST* of the criteria for the specific indicator (quality threshold 75% or more). A rating of 2.0 indicates that the program meets *SOME* of the criteria for the specific indicator (more than 50%, but less than 75%). A rating of 1.0 indicates that the program meets *FEW/NONE* of the criteria for the specific indicator (less than 50%). Ratings of 3.0 and 4.0 require supporting evidence at a specific strength level (see table below).

The *QM Evidence Strength Continuum* (ESC) below provides programs with an objective set of criteria to assist self-study teams in examining and self-rating their programs' supporting evidence. The ESC also serves as an effective benchmark for guiding continuous improvement efforts with the optimal aspiration being *system-wide implementation*. The table below displays two types of evidence – *evidence of design* and *evidence of design implementation* – along four levels of evidence strength with a short description for each strength level, including the evidence strength required for highest self-ratings of 3 and 4. Illustrative examples for each strength level are included for reference purposes.

EVIDENCE STRENGTH	TYPE 1: EVIDENCE OF DESIGN	TYPE 2: EVIDENCE OF IMPLEMENTATION	EXAMPLES OF IMPLEMENTATION EVIDENCE
<b>LEVEL 4</b> <i>Strongest</i>	Artifacts demonstrate that <i>ALL</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts demonstrate <a href="#">system-wide implementation</a> of the indicator criteria for the domain	<i>State, school district, and preparation program provider</i> usage and performance data
<b>LEVEL 3</b> <i>Stronger</i>	Artifacts demonstrate that <i>MOST</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts demonstrate <a href="#">program-wide implementation</a> of the indicator criteria for the domain	<i>Program-wide</i> artifacts include faculty- and student-wide performance data
<b>LEVEL 2</b> <i>Strong</i>	Artifacts demonstrate that <i>SOME</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts demonstrate <a href="#">individual course implementation</a> of the indicator criteria for the domain	<i>Individual course</i> artifacts include usage and performance data for selected faculty and students
<b>LEVEL 1</b> <i>Weak</i>	Artifacts demonstrate that <i>FEW/NO</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts <a href="#">do not yet demonstrate implementation</a> of the indicator criteria for the domain at this time	



## QM Rubrics

## Domain 1: Candidate Admissions

While candidate recruitment is a vital component leading to the success of a school, research shows that less than half of all higher education institutions have a clear strategy that guides the development of their recruitment efforts.<sup>1</sup> While institutions are relying more on social media and digital presence to define their brand and attract students, most popular are the traditional forms of outreach that are event-driven and involve direct interaction with prospective students.<sup>2</sup> A more selective, probing process for selecting candidates for training is thought to be an essential first step in creating a more capable and diverse corps of future principals.<sup>3</sup> Effective programs probe to determine if applicants have the needed experience, leadership skills, aptitudes and dispositions to achieve district goals and improve instruction under trying conditions.<sup>4</sup> Meta-analyses of psychology research studies suggest that the best way to forecast leadership is to use a combination of cognitive ability, personality, simulation, role-play, and multi-rater assessment instruments and techniques.<sup>5</sup> Bray (1982) reported that these assessment data were reasonably valid predictors of a person's promotion record.<sup>6,7</sup>

### QM Indicators of Effective Candidate Admissions:

1. Marketing Strategy
2. Recruitment Practices
3. Admissions Standards
4. Applicant Screening
5. Predictor Assessments
6. Candidate Selection

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<sup>1</sup> Frolich, N., & Stensaker, B. (2010). Student recruitment strategies in higher education: promoting excellence and diversity? *International Journal of Educational Management*, 24(4), 359-370.

<sup>2</sup> Noel Levitz, R. (2016). *Marketing and student recruitment practices benchmark report for four-year colleges and universities*. Cedar Rapids, IA: Ruffalo Noel Levitz. Retrieved from [www.RuffaloNL.com/BenchmarkReports](http://www.RuffaloNL.com/BenchmarkReports)

<sup>3</sup> Mitgang, L. (2012). *The making of the principal: Five lessons in leadership training*. Wallace Perspective Series. New York: The Wallace Foundation.

<sup>4</sup> Ibid., 5

<sup>5</sup> Hogan, R., Curphy, G. J., & Hogan, J. (1994). What we know about leadership: Effectiveness and personality. *American Psychologist*, 49(6), 493-504.

<sup>6</sup> Howard, A. (1986). College experiences and managerial performance. *Journal of Applied Psychology*, 71(3), 530-552. doi: 10.1037/0021-9010.71.3.530

<sup>7</sup> Bray, D. W., & Howard, A. (1983). The AT&T longitudinal studies of managers. In K. W. Schaie (Ed.), *Longitudinal studies of adult psychological development* (pp. 112-146). New York: Guilford.

## Domain 1: Candidate Admissions

QM INDICATORS		QM CRITERIA	LEVELS OF EFFECTIVENESS			
			4 - Meets ALL criteria	3 - Meets MOST criteria	2 - Meets SOME criteria	1 - Meets FEW/NO criteria
1	<b>Marketing Strategy</b>	A comprehensive marketing strategy is based on the following data: 1) an in-depth analysis of the current and future market for school principals in the region; 2) an assessment of program strengths and weaknesses; 3) the identification of market opportunities and threats that will positively or negatively impact efforts to attract the best, brightest, and most diverse talent to apply for admission to your program.				
2	<b>Recruitment Practices</b>	Recruitment practices are part of a strategic plan that builds on program strengths and opportunities identified in the market analyses. Practices are designed to attract applicants who have the maximum potential for becoming effective school leaders in chronically low-performing schools. Practices include: social media, a digital presence (website with analytics), and event-based outreach that involves direct interaction with prospective students. There is evidence that intentional strategies are being implemented to expand the ethnic and gender diversity of candidate pools.				
3	<b>Admission Standards</b>	Admission standards for the program include a requirement that applicants provide documented evidence of prior experience in leading change, fostering collaboration, and contributing to the professional growth and development of others.				
4	<b>Applicant Screening</b>	Applications are screened to ensure that applicants meet admission standards including evidence of prior experience leading change, fostering collaboration, and supporting the growth and development of professional staff.				
5	<b>Predictor Assessments</b>	Screened applicants participate in a combination of cognitive ability, personality, simulation, role-play, and multi-rater assessment instruments and techniques as the final step in the applicant screening process.				
6	<b>Candidate Selection</b>	Candidate final selection processes include a formal interview of finalists by a committee comprised of program faculty and school district staff to confirm that applicants are: 1) genuinely motivated to lead a chronically low performing school, 2) likely to successfully complete program requirements, and 3) are viewed as potential hires by the school district.				

### Evidence of DESIGN might include:

- Correspondence between program faculty and school district personnel
- Informational/marketing materials
- Application checklists, forms
- Handbooks
- Interview rubrics

### Evidence of IMPLEMENTATION might include:

- School leader vacancy projection data
- Candidate assessments and admissions scoring data
- Program impact data
- Program applicant scoring data

Examples of evidence artifacts from QM program users can be found in the Appendix.

## Domain 2: Course Content

The most important development in university teaching over the past few years has been the shift from teaching seen as an *individual* responsibility to one that the *institution* should assume in matters of assessment practice and overall teaching design. McMahon and Thakore (2006), in a comprehensive review of higher order thinking and critical thinking in constructively aligned courses, found that constructive alignment<sup>8,9</sup> (*the process for linking teaching and learning activities with assessment tasks, to directly address the intended learning outcomes*) led to:

- Increased standardization – *leading to fairer and more reliable assessment;*
- Greater transparency – *leading to (a) easier and more accurate inter-university and international comparisons, (b) students being able to focus more effectively on the key learning goals;*
- More effective evaluation of both modules and courses;
- Increased ability of evaluator to determine how well teaching and learning strategies, content, materials, other resources and assessment procedures actually support students in achieving learning goals;
- Greater coherence in programs of learning; and
- An increase in the criticality and depth of student work.

### QM Indicators of Effective Course Content:

1. Standards
2. Learning Goals
3. Course Design
4. Course Evaluation
5. Course Coherence

<sup>8</sup> Note: The term *constructive alignment* was first coined by Professor John Biggs and represents a marriage between a constructivist understanding of the nature of learning, and an aligned design for outcomes-based teaching education.

<sup>9</sup> Biggs, J. B., & Tang, C. (2007). *Teaching for quality learning at university: What the student does* (3<sup>rd</sup> ed.). New York: McGraw-Hill Education.

## Domain 2: Course Content

QM INDICATORS		QM CRITERIA	LEVELS OF EFFECTIVENESS			
			4 - Meets ALL criteria	3 - Meets MOST criteria	2 - Meets SOME criteria	1 - Meets FEW/NO criteria
1	<b>Standards</b>	Courses are based on leader performance standards and designed to develop leader competencies including: 1) agency for change; 2) parent-community-school partnerships; 3) professional capacity building; 4) student centered learning; 5) instructional guidance and support; 6) culturally responsive teaching and learning.				
2	<b>Learning Goals</b>	Courses articulate clear learning goals for candidates that identify <i>both</i> the leader behavior to be developed and the context within which the behavior will be performed.				
3	<b>Course Design</b>	Course designs explicitly connect course content, learning activities, resources and materials, and course assessment measures.				
4	<b>Course Evaluation</b>	Course evaluations are audited on a regular schedule to ensure that assessment tasks and criteria clearly and directly relate to intended learning outcomes.				
5	<b>Course Coherence</b>	Courses are organized and logically sequenced to ensure that: concepts, knowledge, and skills build upon each other in a structured progression of learning, and learning in one course mirrors learning in the same course taught by a different instructor including methods used to evaluate learning.				

### Evidence of DESIGN might include:

- Syllabus, course description
- Standards, rubrics, crosswalk documents
- Student work samples
- Program of study
- Course evaluation survey
- Handbooks

### Evidence of IMPLEMENTATION might include:

- Program completer survey data
- Program assessment data
- Cohort performance data
- Leadership practices inventory data

*Examples of evidence artifacts from QM program users can be found in the Appendix.*



## Domain 3: Pedagogy-Andragogy

Key indicators of effective pedagogy-andragogy emerge from reviews of empirical studies on transformative learning and are rooted in deeply held assumptions about the nature of adult learning and purposes of teaching for change. When taken together, they seek to establish a reciprocal relationship between the practices and the theoretical orientation of transformative learning that can provide a lens for making meaning and guiding transformative leader practice.

### **QM Indicators of Effective Pedagogy-Andragogy:**

1. Active Learning Strategies
2. Experiential Learning Activities
3. Reflective Practices
4. Formative Feedback
5. Performance Benchmarking
6. Culturally Responsive Pedagogy

## Domain 3: Pedagogy-Andragogy

QM INDICATORS		QM CRITERIA	LEVELS OF EFFECTIVENESS			
			4 - Meets ALL criteria	3 - Meets MOST criteria	2 - Meets SOME criteria	1 - Meets FEW/NO criteria
1	<b>Active Learning Strategies</b>	Courses consistently use active learning strategies including project-based and case-based instruction to engage candidates in the content being studied.				
2	<b>Experiential Learning Activities</b>	Courses include structured experiential learning activities in which learners apply new learning and become familiar with various real-world contexts and associated skill requirements.				
3	<b>Reflective Practices</b>	Courses incorporate reflective practices as a standard of practice in developing the essential habit of self-examination and continuous improvement of one's practice.				
4	<b>Formative Feedback</b>	Courses use formative feedback as an essential tool in guiding learning toward stated goals, objectives and performance benchmarks.				
5	<b>Performance Benchmarking</b>	Courses provide candidates with performance benchmarks of best practices for use in reflecting upon and refining specific competencies being developed.				
6	<b>Culturally Responsive Pedagogy</b>	Courses use culturally responsive methods to develop leader competencies at the personal, instructional, and institutional level.				

### Evidence of DESIGN might include:

- Syllabus, course assignments
- Standards, rubrics, crosswalk documents
- Student work samples
- Reflection logs
- Handbooks

### Evidence of IMPLEMENTATION might include:

- Coaches' report on candidate performance
- Formative assessment data

Examples of evidence artifacts from QM program users can be found in the Appendix.

## Domain 4: Clinical Practice

Clinical practice is defined as a form of experiential learning that integrates knowledge and theory learned in courses with practical application and skill development in a real-world, professional setting. These experiences are intended to give students the opportunity to gain valuable applied knowledge and make connections to the professional field being considered as a possible career path. Additionally, it gives prospective employers the opportunity to guide and evaluate talent.<sup>10</sup>

Practicums and internships are two forms of school-based experiential learning often used by preparation programs and school districts to provide aspiring principals with experiential learning experiences in real school settings.

Practicum	Internship
<p>A component of some educational programs where students are placed in a real-world setting (i.e., classroom or school) to observe the work of professionals while also spending some time performing assigned tasks themselves. Typically, students are also enrolled in a course connected to the practicum for deeper understanding and meaningful facilitation of what is being learned during the experience.</p>	<p>A short-term opportunity for students to work (paid or unpaid) for an employer where, ideally, their academic learning can be applied to real-world tasks. A structured academic program where students “learn and earn” by working at a job site while taking a limited number of academic courses. Apprenticeships can take between 3-4 years, often require on-the-job training, and can lead to professional certification and often full-time employment at the job site.</p>

### QM Indicators of Effective Clinical Practice:

1. Clinical Design
2. Clinical Quality
3. Clinical Coaching
4. Clinical Supervision
5. Clinical Placements
6. Clinical Evaluation

<sup>10</sup> National Association of Colleges and Employers (2011). *Position statement: U.S. internships*. Retrieved from [www.naceweb.org/advocacy/position-statements/united-states-internships.aspx](http://www.naceweb.org/advocacy/position-statements/united-states-internships.aspx)

## Domain 4: Clinical Practice

QM INDICATORS		QM CRITERIA	LEVELS OF EFFECTIVENESS			
			4 - Meets ALL criteria	3 - Meets MOST criteria	2 - Meets SOME criteria	1 - Meets FEW/NO criteria
1	<b>Clinical Design</b>	Clinical designs are co-developed by academic faculty, prospective employers, and candidates. They are anchored to academic coursework and articulate clear and specific learning <i>and</i> career development goals/targets for each candidate.				
2	<b>Clinical Quality</b>	Clinical experiences are guided by criterion standards and data systems that produce actionable information on the quality and efficacy of clinical experiences. Standards include expectations for the duration of the clinical experience, relevant high-level leadership tasks, high-quality onsite guidance and modeling, coordination between academic program and school sites to ensure high-quality learning experiences for candidates.				
3	<b>Clinical Coaching</b>	Candidates receive detailed, high-quality feedback and coaching support, from both academic staff <i>and</i> senior level professionals, on a variety of authentic, professional-level tasks.				
4	<b>Clinical Supervision</b>	Candidates are supervised throughout the duration of their clinical experience, by both academic staff <i>and</i> a school-site supervisor(s). Performance expectations and evaluation criteria are clearly defined, prior to beginning the clinical experience, by academic staff and school site supervisors.				
5	<b>Clinical Placements</b>	Clinical placements are identified by academic program staff and ensure that school sites are adequately resourced to provide candidates with a high-quality clinical experience.				
6	<b>Clinical Evaluation</b>	Candidate clinical evaluations are based on systematically developed program assessment criteria and used to guide field supervision and evaluation appropriate for a specific clinical context.				

### Evidence of DESIGN might include:

- Syllabus, handbooks
- Student work samples
- Activity logs, observation forms
- Standards, rubrics
- Clinical evaluation survey
- Discussion boards for peer/coaching feedback

### Evidence of IMPLEMENTATION might include:

- Cohort performance reports
- Candidate performance reports
- Clinical evaluation data
- Pre/post internship survey results

Examples of evidence artifacts from QM program users can be found in the Appendix.

## Domain 5: Performance Assessment

Criterion-referenced assessments are designed to measure candidate performance against a fixed set of predetermined criteria or learning standards—i.e., concise, written descriptions of what candidates are expected to know and be able to do at a specific stage of their education. They are used to evaluate whether candidates have learned a specific body of knowledge or acquired a specific skill set. If candidates perform at or above the established expectations, they are deemed to be proficient. In a fully criterion-referenced system, objectives (learning outcomes) define what students need to know and be able to do (content), how they will be taught (pedagogy), and how learning will be assessed.<sup>11</sup> In a criterion-referenced system of assessment, instructor responsibilities include linking/scaffolding learning and teaching activities to the intended outcomes and structuring assessments appropriate to the level of learning expected.

### QM Indicators of Effective Performance Assessment:

1. Assessment Purpose
2. Candidate Performance Targets
3. Assessment Quality
4. Assessment Methods
5. Communication of Assessment Results
6. Assessment Impact

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<sup>11</sup> Biggs, J. B., & Tang, C. (2011). *Teaching for quality learning at university: What the student does* (4<sup>th</sup> ed.). New York: McGraw-Hill Education.



## Domain 5: Performance Assessment

QM INDICATORS		QM CRITERIA	LEVELS OF EFFECTIVENESS			
			4 - Meets ALL criteria	3 - Meets MOST criteria	2 - Meets SOME criteria	1 - Meets FEW/NO criteria
1	<b>Assessment Purpose</b>	Assessments are designed to collect evidence of candidate progress toward proficiency that is then used to inform instructional decisions.				
2	<b>Candidate Performance Targets</b>	Candidate performance targets are clearly articulated and align with high-priority leader performance standards that form the foundation for candidate assessments.				
3	<b>Assessment Quality</b>	Assessments facilitate valid evaluation of complex competencies, promote learning, and are complemented with exemplars and/or models of performance. Assessments make expectations and criteria explicit which enables feedback and promotes self-assessment.				
4	<b>Assessment Methods</b>	Assessment methods are tightly linked to learning targets and collect both formative and summative data that provide a sufficient sample of candidate performance data to reliably infer levels of proficiency for a particular performance target.				
5	<b>Communication of Assessment Results</b>	Methods for communicating candidate assessment data produce accurate, timely, and immediately usable information about the level of candidate mastery of performance target(s).				
6	<b>Assessment Impact</b>	Candidates use assessment data and continuous improvement processes to take charge of their own progress toward performance mastery and growth over time.				

### Evidence of DESIGN might include:

- Syllabus
- Activity logs
- Forms
- Standards, crosswalk documents
- Assessment rubrics

### Evidence of IMPLEMENTATION might include:

- Cohort performance reports
- Candidate performance reports
- Program assessment data
- Annual data review and evaluation data report

Examples of evidence artifacts from QM program users can be found in the Appendix.

## Domain 6: Graduate Performance Outcomes

Outcomes are clear learning results that we want students to demonstrate at the end of significant learning experiences. They are not values, beliefs, attitudes, or psychological states of mind. Instead, outcomes are what learners can actually do with what they know and have learned. They are the tangible application of what has been learned. This means that outcomes are actions and performances that embody and reflect learner competence in using content, information, ideas, and tools successfully. Having learners do important things with what they know is a major step beyond knowing itself. Because outcomes involve actual doing, rather than just knowing or a variety of other purely mental processes, they must be defined according to the actions or demonstration processes being sought.<sup>12</sup>

### QM Indicators of Effective Principal Preparation:

1. Exit Competencies
2. State Certification
3. School District Eligibility
4. School District Hiring
5. Job Placement and Retention<sup>13,14</sup>
6. Job Performance

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<sup>12</sup> Spady, W. G. (1994). *Outcome-based education: Critical issues and answers*. Arlington, VA: American Association of School Administrators.

<sup>13</sup> Daloisio, J. (2017). *Principal churn: A case study on principal turnover and strategies to build sustainability and continuity* (Doctoral dissertation). Retrieved from <http://d-scholarship.pitt.edu/33237/>

<sup>14</sup> Goldring, R., & Taie, S. (2014). *Principal attrition and mobility: Results from the 2012–13 Principal Follow-up Survey* (NCES 2014-064rev). Washington, DC: U.S. Department of Education, National Center for Education Statistics. Retrieved from <http://nces.ed.gov/pubsearch> (accessed 2017 October)

## Domain 6: Graduate Performance Outcomes

QM INDICATORS		QM CRITERIA	LEVELS OF EFFECTIVENESS			
			4 - Meets ALL criteria	3 - Meets MOST criteria	2 - Meets SOME criteria	1 - Meets FEW/NO criteria
1	<b>Exit Competencies</b>	Candidates demonstrate program exit competencies required to become education leaders, based on program exit exams, professional standards for educational leaders, <i>and</i> local school district performance expectations for principal and assistant principal.				
2	<b>State Certification</b>	Program graduates are certified and licensed by the state upon program completion or advanced to the next level of the state certification process.				
3	<b>School District Eligibility</b>	Eligible program graduates are admitted into one or more school district applicant pools and are eligible to be interviewed for principal and/or assistant principal positions.				
4	<b>School District Hiring</b>	Eligible program graduates are hired as principals and/or assistant principal leadership positions within one year of program completion or progress to the next level of the hiring process.				
5	<b>Job Placement and Retention</b>	Program graduates hired by a school district are placed in vacancies in chronically low performing schools and remain in the same position for at least three years.				
6	<b>Job Performance</b>	Program graduates placed in leadership positions either meet or exceed expectations on district performance evaluations during their induction period.				

### Evidence of DESIGN might include:

- State certification requirements/checklist
- State-approved program verification form
- Program exit survey
- List of principal graduates
- University/school district MOU
- Survey to employers of 1<sup>st</sup> year leaders

### Evidence of IMPLEMENTATION might include:

- Cohort performance reports
- Candidate performance reports
- Exit competencies assessment data
- State certification exam data
- Map of graduate placements

*Examples of evidence artifacts from QM program users can be found in the Appendix.*

## Glossary of Terms

This glossary of terms is included here as a quick reference tool for self-study teams engaged in the process of examining their principal preparation program practices using Quality Measures™ rubrics. The glossary is intended to offer general definitions of terms to assist teams in developing a shared understanding of indicators associated with each program domain.

### Domain 1: Candidate Admissions

**Marketing Strategy:** A comprehensive plan for recruiting a diverse pool of highly qualified applicants to enroll in the institution’s principal preparation program.

**Recruitment Practices:** Specific actions taken by programs to attract applicants who demonstrate strong potential for becoming effective school leaders. Practices may include: strategic social media, digital campaigns (website with analytics), event-based outreach that involves direct interaction with prospective students, and other practices that target ethnic and gender specific applicants.

**Admissions Standards:** Admission standards define the specific requirements for screening program applications and selecting candidates for admission.

**Applicant Screening:** Refers to specific processes designed and implemented to screen applications in order to identify highly qualified applicants who meet program admission requirements.

**Predictor Assessments:** A battery of assessments used as part of the applicant screening process to predict different leadership behaviors (e.g., task-oriented behaviors, relational-oriented behaviors, and change-oriented behaviors).

**Candidate Selection:** Processes used to select candidate for admission to the program. May include face-to-face interviews, job shadows, reference checks. May involve a selection committee comprised of program faculty and school district staff.

## Domain 2: Course Content

**Standards Based:** Refers to Professional Standards for School Leaders (PSEL).

**Learning Goals:** Learning goals clearly define the purpose for the learning (i.e., what the learner should know and be able to do as a result of the instruction). When developed by the learner, in collaboration with the instructor, learning goals help to create a shared understanding and focus for the learning and also provide a guide for developing short- and long-term measures to assess results.

**Constructive Alignment:** Refers to the process for devising teaching and learning activities, and assessment tasks, to directly address the intended learning outcomes. The term *constructive alignment* was first coined by Professor John Biggs and represents a marriage between a constructivist understanding of the nature of learning and an aligned design for outcomes-based teaching education.

**Course Design:** An approach to designing curriculum that integrates learning goals, course content, learning activities, resources and materials, and course assessment measures.

**Course Evaluation:** The process of gathering information about the impact of learning and of teaching practice on student learning, analyzing and interpreting that information, and responding to and acting on the results.

**Course Coherence:** Refers to a set of interrelated courses and learning experiences that are logically sequenced (vertically aligned) and guided by a common framework/design for curriculum, instruction, assessment, and learning climate, and pursued over a sustained period of time.

## Domain 3: Pedagogy-Andragogy

**Pedagogy-Andragogy:** Pedagogy, as used here, refers to the field of study that deals mainly with methods of teaching and learning in schools; while andragogy refers to *the art or science of teaching adults* (Malcolm Knowles first coined this term in 1970). Andragogy is based on a humanistic conception of self-directed and autonomous learners and teachers as facilitators of learning. Important Note: Malcolm Knowles himself changed his position on whether andragogy really applied only to adults and came to believe that "pedagogy-andragogy represents a continuum ranging from teacher-directed to student-directed learning and that both approaches are appropriate with children and adults, depending on the situation." Hanson (1996) argues that the difference in learning is NOT related to the age and stage of one's life, but instead related to individual characteristics and the differences in "context, culture and power" within different educational settings.

**Active Learning:** A method of learning that engages students in two aspects of the learning process – doing things and thinking about the things they are doing.



**Experiential Learning:** The process of learning through experience. More specifically defined as "learning through reflection on doing." Experiential learning is distinct from rote or didactic learning, the latter in which the learner plays a comparatively passive role.

**Reflective Practice:** Involves the practice of reflecting on one's actions as a way to engage in a process of continuous learning. According to one definition, reflective practices involve "paying critical attention to the practical values and theories which inform everyday actions."

**Formative Feedback:** Ongoing feedback throughout the learning process that can be used by instructors to improve their teaching and by students to improve their learning.

**Performance Benchmarking:** A way of discovering what is the best performance being achieved – whether in a particular course, in a competitor program, or in an entirely different industry. This information can then be used to identify gaps in program content and processes in order to improve outcomes and achieve a competitive advantage.

**Culturally Responsive Pedagogy:** An instructional method that is grounded in teachers' displaying skill at teaching in a cross-cultural or multicultural setting. Enables students to relate course content to their own cultural experiences.

## Domain 4: Clinical Practice

**Clinical Design:** Refers to the essential elements of an effective experiential learning experience that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional school setting. Essential elements include learning goals that are structured into the learning experience and supervised by a professional with relevant and related background in the field. The overall clinical design balances the intern's learning goals with the organization's (school) needs. May be part-time or full-time.

**Clinical Quality:** Refers to the degree to which clinical designs incorporate the design elements that result in desired learner performance outcomes.

**Clinical Coaching:** Refers to the dedicated time supervisors and/or coaches spend observing and providing feedback to interns on both accomplishments and areas for improvement. Includes intentional support in the intern's transition from the classroom to the workplace.

**Clinical Supervision:** Refers to the level of guidance and oversight provided to interns. Generally includes: familiarizing them with the school assignment, providing assignments, and serving as a "contact" person for questions. Internship supervision should be conducted by an expert in the type of work the intern(s) will be performing to provide the appropriate guidance for the intern's assignments. An intern supervisor's responsibilities typically include: taking part in an intern's placement, screening, and interview process; conducting the intern orientation; developing intern learning goals; meeting with and observing an intern regularly to evaluate performance and determine if needs/goals are being met; and assessing the internship program's success.

**Clinical Placements:** Refers to the professional schools identified for interns to complete the experiential segment of their preparation and training.

**Clinical Evaluation:** Refers to the evaluation of the intern's initial learning objectives identified at the start of the internship. Typically, supervisors are asked to evaluate interns at the midpoint and end of the internship. Employers are encouraged to review the internship with the intern before he or she leaves. Evaluations are helpful in determining the intern's success within the assigned school and also serve as predictors of success for future internships or employment upon graduation.

## Domain 5: Performance Assessment

**Formative Assessment:** Provides feedback to teachers and learners throughout the teaching and learning process about what is working, what is not working, and what the student and the teacher should do next to improve.

**Summative Assessment:** Measures the extent to which the learner has accomplished the intended learning outcomes and contributes to the final grade. It is most often used at the end of a course of study to quantify learning achievement and provide data for determining the next level of study.

**Candidate Performance Targets:** Defines the specific learner performance to be accomplished by the end of the course of study as well as interim indicators of progress along the way.

**Assessment Quality:** As used here, assessment quality is defined as the extent to which an assessment accurately measures the performance it is intended to measure.

**Assessment Methods:** Refers to the strategies, techniques, tools and instruments used to collect information to determine the extent to which learners demonstrate desired learning outcomes. Several different methods should be used to assess learner outcomes.

**Communication of Assessment Results:** Refers to the methods and timelines used to communicate progress toward performance targets and learning goals to learners.

**Assessment Impact:** Refers to the methods used to determine the effects of teaching and learning on changes in learner behaviors, either intended or unintended.

## Domain 6: Graduate Performance Outcomes

**Exit Competencies:** A general statement that describes the desired knowledge, skills, and behaviors of a student graduating from a program (or completing a course). Competencies commonly define the applied skills and knowledge that enable people to successfully perform in professional, educational, and other life contexts.

**State Certification:** The certification process is different for each state, but most states require an in-depth analysis of a potential principal's background, as well as exams that test his or her knowledge of running a school.

**School District Eligibility:** Refers to the number of graduates from certified principal preparation programs who meet school district requirements and, as a result, are eligible to be interviewed by the school district for the position of school principal. Requirements for hiring eligibility vary by school district.

**School District Hiring:** Refers to the number of graduates from certified principal preparation programs who are hired by school districts as school principals.

**Job Placement and Retention:** Refers to the number of graduates from certified principal preparation programs who are placed as first-year principals or assistant principals in chronically low performing schools, and their tenure in the position.

**Job Performance:** Refers to the number of graduates from certified principal preparation programs who meet or exceed school district performance expectations as reflected in performance evaluations conducted during the first three years of induction.

## Selected References

### DOMAIN 1: CANDIDATE ADMISSIONS

- Bray, D. W. (1982). The assessment center and the study of lives. *American Psychologist*, *37*, 108-189.
- Bray, D. W., & Howard, A. (1983). The AT&T longitudinal studies of managers. In K. W. Schaie (Ed.), *Longitudinal studies of adult psychological development* (pp. 112-146). New York: Guilford.
- Frolich, N., & Stensaker, B. (2010). Student recruitment strategies in higher education: Promoting excellence and diversity? *International Journal of Educational Management*, *24*(4), 359-370. doi: 10.1108/09513541011045281.
- Hogan, R., Curphy, G. J., & Hogan, J. (1994). What we know about leadership: Effectiveness and personality. *American Psychologist*, *49*(6), 493-504.
- Howard, A. (1986). College experiences and managerial performance. *Journal of Applied Psychology*, *71*(3), 530-552. doi: 10.1037/0021-9010.71.3.530
- Mitgang, L. (2012). *The making of the principal: Five lessons in leadership training*. New York: The Wallace Foundation.
- Noel Levitz, R. (2013). *Marketing and student recruitment practices benchmark report for four-year and two-year institutions*. Cedar Rapids, IA: Ruffalo Noel Levitz. Retrieved from [www.RuffaloNL.com/BenchmarkReports](http://www.RuffaloNL.com/BenchmarkReports)
- Noel Levitz, R. (2016). *Marketing and student recruitment practices benchmark report for four-year colleges and universities*. Cedar Rapids, IA: Ruffalo Noel Levitz. Retrieved from [www.RuffaloNL.com/BenchmarkReports](http://www.RuffaloNL.com/BenchmarkReports)

### DOMAIN 2: COURSE CONTENT

- Ackoff, R. L. (1974). *Redesigning the future: Systems approach to societal problems*. New York: John Wiley & Sons.
- Anyon, J. (1997). *Ghetto schooling: A political economy of urban educational reform*. New York: Teachers College Press.
- Anyon, J. (2005). *Radical possibilities: Public policy, urban education, and a new social movement*. New York: Routledge. doi: 10.1177/0042085907304904
- Argyris, C. & Schön, D. A. (1974). *Theory in practice: Increasing professional effectiveness*. San Francisco, CA: Jossey-Bass.
- Au, K. H., & Kawakami, A. J. (1994). Cultural congruence in instruction. In E. R. Hollins, J. E. King, & W. C. Hayman, (Eds.), *Teaching diverse populations: Formulating a knowledge base* (pp. 5–23). Albany, NY: State University of New York Press.
- Banathy, B. H. (1991). *Systems design of education: A journey to create the future*. Englewood Cliffs, NJ: Educational Technology Publications.
- Banks, J. A., Cookson, P., Gay, G., Hawley, W. D., Irvine, J. J., Nieto, S., Schofield, J. W., & Stephan, W.G. (2001). Diversity within unity: Essential principles for teaching and learning in a multicultural society. *Phi Delta Kappan*, *83*(3), 196–203.

- Beabout, B. R. (2012). Turbulence, perturbation, and educational change. *Complicity: An International Journal of Complexity and Education*, 9(2), 15-29.
- Beabout, B. R. (2014). Community leadership: Seeking social justice while re-creating public schools in post-Katrina New Orleans. In Bogotch, I., & Shields, C. (Eds.), *International handbook of educational leadership and social (in)justice*. Springer International Handbooks of Education, 29, 543-570. Dordrecht, Netherlands: Springer.
- Beabout, B. R. (2014). Principles of leading change: An inductive analysis from post-Katrina New Orleans. *Policy Futures in Education*, 12(8), 1048-1063.
- Beabout, B. R., & Jakiel, L. B. (2011). Family engagement in charter schools. In S. Redding, M. Murphy, & P. Sheley (Eds.), *Handbook on family and community engagement* (pp. 147–151). Charlotte, NC: Information Age Publishing.
- Berends, M., Chun, J., Schuyler Ikemoto, G., Stockly, S., & Briggs, R. J. (2002). *Challenges of conflicting school reforms: Effects of new American schools in a high-poverty district*. Santa Monica, CA: RAND Corporation.
- Biggs, J. B. (2014). Constructive alignment in university teaching. *HERDSA Review of Higher Education*, 1, 5-22.
- Biggs, J. B., & Tang, C. (2007). *Teaching for quality learning at university: What the student does* (3<sup>rd</sup> ed.). New York: McGraw-Hill Education.
- Borko, H., Wolf, S. A., Simone, G. & Uchiyama, K.P. (2003). Schools in transition: Reform efforts and school capacity in Washington state. *Educational Evaluation and Policy Analysis*, 25(2), 171-201. doi: 10.3102/01623737025002171
- Brook, V. (2006). Learning-focused curriculum development: The redesign of elements of a PGCE Science (Subject Year) Programme. *Investigations in University Teaching and Learning*, 3(2), 27-35.
- Brown, J. K. (2008). Student-centered instruction: Involving students in their own education. *Music Educators Journal*, 94(5), 30-35.
- Brown, S. L., & Eisenhardt, K. M. (1997). The art of continuous change: Linking complexity theory and time-paced evolution in relentlessly shifting organizations. *Administrative Science Quarterly*, 42(1), 1-34. doi: 10.2307/2393807
- Bryk, A. S., & Schneider, B. (2003). Trust in schools: A core resource for school reform. *Creating Caring Schools*, 60(6), 40-45.
- Bryk, A. S., Sebring, P. B., Allensworth, E., Luppescu, S., & Easton, J. Q. (2010). *Organizing schools for improvement: Lessons from Chicago*. Chicago, IL: University of Chicago Press.
- Bryk, A. S., Sebring, P. B., Kerbow, D., Rollow S. G., & Easton, J. Q. (1999). *Charting Chicago school reform: Democratic localism as a lever for change*. Boulder, CO: Westview Press.
- Bulkley, K. E., Henig, J. R., & Levin, H. M. (2010). *Between public and private: Politics, governance, and the new portfolio models for urban school reform*. Cambridge, MA: Harvard Education Press.
- Carr-Chellman, A. A. (2006). *User design*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Corcoran, T., & Lawrence, N. (2003). Changing district culture and capacity: The impact of the Merck Institute for Science Education Partnership. *CPRE Research Reports*. Philadelphia, PA: University of Pennsylvania, Consortium for Policy Research in Education.
- Cowen Institute for Public Education Initiatives at Tulane University (2008). *The state of public education in New Orleans: 2008 report*. New Orleans, LA: Author.
- Cuban, L. (1972). Ethnic content and 'White' instruction. *Phi Delta Kappan*, 53(5), 270–273.
- Cuban, L., & Usdan, M. D. (2002). *Powerful reforms with shallow roots: Improving America's urban schools*. New York: Teachers College Press.

- Darling-Hammond, L., LaPointe, M., Meyerson, D., Orr, M. T., & Cohen, C. (2007). *Preparing school leaders for a changing world: Lessons from exemplary leadership development programs*. Stanford, CA: Stanford University, Stanford Educational Leadership Institute.
- DeVore, D. E., & Logsdon, J. (1991). *Crescent City Schools: Public education in New Orleans, 1841-1991*. Lafayette, LA: Center for Louisiana Studies, University of Southwestern Louisiana.
- Dow, K. L., & Braithwaite, V. (2013). *Review of higher education regulation report*. Canberra, ACT: Commonwealth of Australia.
- Drago-Severson, E. (2004a). *Becoming adult learners: Principles and practices for effective development*. New York, NY: Teachers College Press.
- Drago-Severson, E. (2004b). *Helping teachers learn: Principal leadership for adult growth and development*. Thousand Oaks, CA: Corwin.
- Drago-Severson, E. (2006a, March). How can you better support teachers' growth? *The Learning Principal*, 1(6), 1, 6-7.
- Drago-Severson, E. (2006b, Summer). Learning-oriented leadership: Transforming a school through a program of adult learning. *Independent School Journal*, 58-62.
- Drago-Severson, E. (2007). Helping teachers learn: Principals as professional development leaders. *Teachers College Record*, 109(1), 70-125.
- Drago-Severson, E. (2009). *Leading adult learning: Supporting adult development in our schools*. Thousand Oaks, CA: Corwin and Learning Forward.
- Drago-Severson, E. (2012). *Helping educators grow: Strategies and practices for leadership development*. Cambridge, MA: Harvard Education Press.
- Drago-Severson, E. (2016). Use a variety of practices to connect with all. *Journal of Staff Development*, 37(1), 38-42.
- Drago-Severson, E., & Blum-DeStefano, J. (2016). *Tell me so I can hear you: A developmental approach to feedback for educators*. Cambridge, MA: Harvard Education Press.
- Drago-Severson, E., Blum-DeStefano, J., & Asghar, A. (2013). *Learning for leadership: Developmental strategies for building capacity in our schools*. Thousand Oaks, CA: Corwin.
- Eisner, E. W. (1992). Educational reform and the ecology of schooling. *Teachers College Record*, 93(4), 610-627.
- Ellsworth, J. B. (2000). *Surviving change: A survey of educational change models*. Syracuse, NY: ERIC Clearinghouse on Information & Technology.
- Elmore, R. F., & Burney, D. (1997). *Investing in teacher learning: Staff development and instructional improvement in Community District 2*. Philadelphia, PA: Consortium for Policy Research in Education and National Commission on Teaching and America's Future.
- Evans, R. (1996). *The human side of school change: Reform, resistant, and the real problems of innovation*. San Francisco, CA: Jossey-Bass.
- Felder, R. M., & Brent, R. (1996). Navigating the bumpy road to student-centered instruction. *College Teaching*, 44(2), 43-47.
- Ferris, R. M. (2012). *Flood of conflict: The story of the New Orleans Free School*. Roslyn Heights, NY: Alternative Education Resource Organization.
- Fink, D. (2003). The law of unintended consequences: The 'real' cost of top-down reform. *Journal of Educational Change*, 4(2), 105-128. doi: 10.1023/A:1024783324566
- Fishman B., Marx, R. W., Blumenfeld, P., Krajcik, J., & Soloway, E. (2004). Creating a framework for research on systemic technology innovations. *Journal of the Learning Sciences*, 13(1), 43-76. doi: 10.1207/s15327809jls1301\_3
- Forsyth, P. B., Adams, C. M., & Hoy, W. K. (2011). *Collective trust: Why schools can't improve without it*. New York: Teachers College Press.
- Freire, P. (1985). *The politics of education: Culture, power, and liberation*. (D. Macedo, Trans.). South Hadley, MA: Bergin & Garvey Publishers.
- French, J. R. P., & Raven, B. H. (1959). The bases of social power. In D. Cartwright (Ed.), *Studies in social power* (pp. 150–167). Ann Arbor, MI: Institute for Social Research.



- Fullan, M. (2000). The three stories of education reform. *Phi Delta Kappan*, 81(8), 581–584.
- Fullan, M. (2001). *Leading in a culture of change*. San Francisco, CA: Jossey-Bass.
- Fusarelli, L. D. (2002). Tightly coupled policy in loosely coupled systems: Institutional capacity and organizational change. *Journal of Educational Administration*, 40(6), 561-575. doi: 10.1108/09578230210446045
- Gardner, H. (1983). *Frames of mind: The theory of multiple intelligences*. New York: Basic Books.
- Gay, G. (1975). Organizing and designing culturally pluralistic curriculum. *Educational Leadership*, 33(3), 176–183.
- Gay, G. (2010). *Culturally responsive teaching: Theory, research, and practice* (2nd ed.). New York: Teachers College Press.
- Glaser, B. G., & Strauss, A. L. (1967). *The discovery of Grounded Theory: Strategies for qualitative research*. New Brunswick, NJ: Aldine/Transaction Publishers.
- Glesne, C. (2005). *Becoming qualitative researchers: An introduction* (3rd ed.). Boston, MA: Pearson Education.
- Goldenberg, C. (2003). Settings for school improvement. *International Journal of Disability, Development and Education*, 50(1), 7-16. doi: 10.1080/1034912032000053304
- Goldstein, L. S. (1999). The relational zone: The role of caring relationships in the co-construction of mind. *American Educational Research Journal*, 36(3), 647-673.
- Goleman, D. (2000, March-April). Leadership that gets results. *Harvard Business Review*. Retrieved from <https://hbr.org/2000/03/leadership-that-gets-results>
- Gross, S. J. (1998). *Staying centered: Curriculum leadership in a turbulent era*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Gutiérrez, K. D., & Rogoff, B. (2003). Cultural ways of learning: Individual traits or repertoires of practice. *Educational Researcher*, 32(5), 19-25.
- Hammerness, K. (2001). Teachers' visions: The role of personal ideals in school reform. *Journal of Educational Change*, 2(2), 143-163. doi: 10.1023/A:1017961615264
- Hargreaves, A. (1994). *Changing teachers, changing times: Teachers' work and culture in the post-modern age*. New York: Teachers College Press.
- Hargreaves, A. (2008). The coming of post-standardization: Three weddings and a funeral. In C. Sugrue (Ed.), *The future of educational change: International perspectives* (pp. 15–34). London, UK: Routledge.
- Hargreaves, A., & Shirley, D. (2009). *The fourth way: The inspiring future for educational change*. Thousand Oaks, CA: Corwin.
- Hess, F. (Ed.) (1995). *Urban school reform: Lessons from San Diego*. Cambridge, MA: Harvard Education Press.
- Hubbard, L., Mehan, H., & Stein M. K. (2006). *Reform as learning: School reform, organizational culture, and community politics in San Diego*. New York: Routledge.
- Jenlink, P. M., Reigeluth, C. M., Carr, A. A., & Nelson, L. M. (1998). Guidelines for facilitating systemic change in school districts. *Systems Research and Behavioral Science*, 15, 217-233. doi: 10.1002/(SICI)1099-1743(199805/06)15:3<217::AID-SRES223>3.0.CO;2-N
- Joyce, B., & Showers, B. (1982). The coaching of teaching. *Educational Leadership*, 40(1), 4-10.
- Kegan, R. (1983). *The evolving self: Problems and process in human development*. Cambridge, MA: Harvard University Press.
- Kegan, R. (1994). *In over our heads: The mental demands of modern life*. Cambridge, MA: Harvard University Press.

- Khalifa, M. (2012). A reNewed paradigm in successful urban school leadership: Principal as community leader. *Educational Administration Quarterly*, 48, 424-467. doi: 10.1177/0013161X11432922
- Knapp, M. S., Copland, M. A., & Talbert, J. E. (2003). *Leading for learning: Reflective tools for school and district leaders*. CTP Research Report. Seattle, WA: University of Washington, Center for the Study of Teaching and Policy.
- Ladson-Billings, G. (1994). *The dreamkeepers: Successful teachers of African American children*. San Francisco, CA: Jossey-Bass.
- Ladson-Billings, G. (2001). *Crossing over to Canaan: The journey of new teachers in diverse classrooms*. San Francisco, CA: Jossey-Bass.
- Ladson-Billings, G. (2001). Fighting for our lives: Preparing teachers to teach African American students. *Journal of Teacher Education*, 51(3), 206-214.
- Lai, K.-W., & Pratt, K. (2004). Information and communication technology (ICT) in secondary schools: The role of the computer coordinator. *British Journal of Educational Technology*, 35(4), 461-475. doi: 10.1111/j.0007-1013.2004.00404.x
- Land, S. M., & Hannafin, M. J. (1997). Student-centered learning environments: Foundations, assumptions, and implications. *Instructional Science*, 25(3), 167-202. doi: 10.1023/A:1002997414652
- Lewin, K. (1989). Changing as three steps: Unfreezing, moving, and freezing of group standards. In French, W. L., Bell, C. H., & Zawacki, R. A. (Eds.), *Organizational development: Theory, practice and research* (3rd ed.). Homewood, IL: BPI/Irwin.
- McLaughlin, M. W. (1990). The Rand Change Agent study revisited: Macro perspectives and micro realities. *Educational Researcher*, 19(9), 11-16. doi: 10.3102/0013189X019009011
- McLaughlin, M. W., & Mitra, D. (2001). Theory-based change and change-based theory: Going deeper, going broader. *Journal of Educational Change*, 2(4), 301-323. doi: 10.1023/A:1014616908334
- McMahon, T. & Thakore, H. (2006). Achieving constructive alignment: Putting outcomes first. *Quality of Higher Education*, 3, 10-19.
- McQuillan P. J. (2008). Small-school reform through the lens of complexity theory: It's 'good to think with.' *Teachers College Record*, 110(9), 1772-1801.
- Miles, M. (2005). Finding keys to school change: A 40-year odyssey. In A. Lieberman (Ed.), *The roots of educational change: International handbook of educational change* (pp. 25-57). Dordrecht, Netherlands: Springer. doi: 10.1007/1-4020-4451-8\_3
- Moll, L. C., & Diaz, S. (1987). Change as the goal of educational research. *Anthropology & Education Quarterly*, 18(4), 300-311. doi: 10.1525/aeq.1987.18.4.04x0021u
- Morrison, K. (2002). *School leadership and complexity theory*. London, UK: Routledge.
- National Policy Board for Educational Administration (2015). *Professional standards for educational leaders 2015*. Reston, VA: Author.
- Neufeld, B., & Roper, D. (2002). *Off to a good start: Year I of collaborative coaching and learning in the Effective Practice Schools*. Cambridge, MA: Education Matters, Inc.
- Neufeld, B., & Roper, D. (2003). *Coaching: A strategy for developing instructional capacity: Promises and practicalities*. Cambridge, MA: Education Matters, Inc.
- Newmann, F. M., & Wehlage, G. G. (1995). *Successful school restructuring: A report to the public and educators*. Madison, WI: University of Wisconsin-Madison, Center on Organization and Restructuring of Schools.
- Noguera, P. A. (1996). Confronting the urban in urban school reform. *The Urban Review*, 28(1), 1-19. doi: 10.1007/BF02354375



- Olsen, B., & Kirtman, L. (2002). Teacher as mediator of school reform: An examination of teacher practice in 36 California restructuring schools. *Teachers College Record, 104*(2), 301-324. doi: 10.1111/1467-9620.00164
- Orr, M. T., Byrne-Jimenez, M., McFarlane, P., & Brown, B. (2005). Leading out from low performing schools: The urban principal experience. *Leadership and Policy in Schools, 4*(1), 23-54. doi: 10.1080/15700760590924609
- Payne, C. M. (2008). *So much reform, so little change: The persistence of failure in urban schools*. Cambridge, MA: Harvard Education Press.
- Peck, K. L., & Carr, A. A. (1997). Restoring public confidence in schools through systems thinking. *International Journal of Educational Reform, 6*(3), 316-323.
- Perry, A. M., & Schwam-Baird, M. M. (2010). School by school: The transformation of New Orleans public education. In *The New Orleans Index at Five*. Washington, DC: Brookings Institution and Greater New Orleans Community Data Center.
- Ravitch, D. (2010). *The death and life of the great American school system: How testing and choice are undermining education*. New York: Basic Books.
- Reigeluth, C. M. (2006). A leveraged emergent approach to systemic transformation. *Tech Trends, 50*(2), 46-47.
- Reigeluth, C. M., Carr-Chellman, A. A., Beabout, B. R., & Watson, W. (2006). Creating shared visions of the future of K-12 education: A systemic transformation process for a learner-centered paradigm. *Journal of Educational Alternatives, 2*(3), 34-66.
- Reynolds, P. R. (2007). The 'pedagogy of the oppressed': The necessity of dealing with problems in students' lives. *Educational Horizons, 86*(1), 53-60.
- Rogers, E. M. (2003). *Diffusion of innovations* (5th ed). New York: Free Press.
- Rudman, L. A. (2004). Sources of implicit attitudes. *Current Directions in Psychological Science, 13*(2), 79-82. doi: 10.1111/j.0963-7214.2004.00279.x
- Russell, G. (2006). Guilty pleas expected in bribe case. *The Times-Picayune*. Retrieved from <http://www.nola.com/education> (accessed 7 December 2006).
- Sammons, P. (1999). *School effectiveness: Coming of age in the 21st century*. Lisse, Netherlands: Swets & Zeitlinger.
- Santamaría, L. J. (2009). Culturally responsive differentiated instruction: Narrowing gaps between best pedagogical practices benefiting all learners. *Teachers College Record, 111*(1), 214-247.
- Santamaría, L. J., & Thousand, J. A. (2004). Collaboration, co-teaching, and differentiated instruction: A process-oriented approach to whole schooling. *International Journal of Whole Schooling, 1*(1), 13-27.
- Senge, P. M. (1990). *The fifth discipline: The art and practice of the learning organization*. New York: Doubleday/Currency.
- Spillane, J. P. (2002). Local theories of teacher change: The pedagogy of district policies and programs. *Teachers College Record, 104*(3), 377-420. doi: 10.1111/1467-9620.00167
- Spillane, J. P., Halverson, R., & Diamond, J. B. (2004). Toward a theory of leadership practice: A distributed perspective. *Journal of Curriculum Studies, 36*(1), 3-34.
- Squire, K. D., & Reigeluth, C. M. (2000). The many faces of systemic change. *Educational Horizons, 78*(3), 143-152.
- Stein, M. K., & Coburn, C. E. (2008). Architectures for learning: A comparative analysis of two urban school districts. *American Journal of Education, 114*(4), 583-626.

- Stein, M. K., & D'Amico, L. (2002). Inquiry at the crossroads of policy and learning: A study of a district-wide literacy initiative. *Teachers College Record, 104*, 1313-1344.
- Supovitz, J. A. (2006). *The case for district-based reform: Leading, building, and sustaining school improvement*. Cambridge, MA: Harvard Education Press.
- Taylor, R. & Canfield, P. (2007). Learning to be a scholarly teaching faculty: Cultural change through shared leadership. In A. Brew & J. Sachs (Eds.), *The transformed university: Scholarship of teaching and learning in action* (pp. 233-247). Sydney, Australia: Sydney University Press.
- Tearle, P. (2003). ICT implementation: What makes the difference? *British Journal of Educational Technology, 34*(5), 567–583. doi: 10.1046/j.0007-1013.2003.00351.x
- Tomlinson, C. A. (1999). *The differentiated classroom: Responding to the needs of all learners*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Tomlinson, C. A. (2003). *Fulfilling the promise of the differentiated classroom: Strategies and tools for responsive teaching*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Tomlinson, C. A., & Allan, S. D. (2000). *Leadership for differentiating schools and classrooms*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Tomlinson, C. A., Brimijoin, K., & Narvaez, L. (2008). *The differentiated school: Making revolutionary changes in teaching and learning*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Tomlinson, C. A., & Kalbfleisch, M. L. (1998). Teach me, teach my brain: A call for differentiated classrooms. *Educational Leadership, 56*(3), 52-55.
- Tyack, D. B., & Cuban, L. (1995). *Tinkering towards Utopia: A century of public school reform*. Cambridge, MA: Harvard University Press.
- Warren, M. R. (2005). Communities and schools: A new view of urban education reform. *Harvard Educational Review, 75*(2), 133–173. doi: 10.17763/haer.75.2.m718151032167438
- Weick, K. E. (1976). Educational organizations as loosely coupled systems. *Administrative Science Quarterly, 21*(1), 1–19. doi: 10.2307/2391875
- Weimer, M. (2002). *Learner-centered teaching: Five key changes to practice*. San Francisco, CA: Jossey-Bass.
- Wenger, E. (1999). *Communities of practice: Learning, meaning, and identity*. Cambridge, UK: Cambridge University Press.
- Wheatley, M. J. (1999). *Leadership and the new science: Discovering order in a chaotic world* (2nd ed.). San Francisco, CA: Berrett-Koehler.
- Wolcott, H. F. (1973). *The man in the principal's office: An ethnography*. New York: Holt, Rinehart, & Winston.
- Wong, K. K., Shen, F. X., Anagnostopoulos, D., & Rutledge, S. (2007). *The education mayor: Improving America's schools*. Washington, DC: Georgetown University Press.
- Wright, G. B. (2011). Student-centered learning in higher education. *International Journal of Teaching and Learning in Higher Education, 23*(1), 92-97.

### DOMAIN 3: PEDAGOGY-ANDRAGOGY

- Ambrose, S. A., Bridges, M. W., DiPietro, M., Lovett, M. C., Norman, M. K., & Mayer, R. E. (2010). *How learning works: Seven research-based principles for smart teaching*. San Francisco, CA: Jossey-Bass.

- Barr, R. B., & Tagg, J. (1995). From teaching to learning —A new paradigm for undergraduate education". *Change: The Magazine of Higher Learning*, 27(6), 12-25. doi: 10.1080/00091383.1995.10544672
- Bloom, B. S. (1956). *Taxonomy of educational objectives: The classification of educational goals*. Philadelphia, PA: David McKay Publications.
- Blumenfeld, P. C., Soloway, E., Marx, R. W., Krajcik, J. S., Guzdial, M., & Palincsar, A. (1991). Motivating project-based learning: Sustaining the doing, supporting the learning". *Educational Psychologist*, 26(3-4), 369-398. doi: 10.1080/00461520.1991.9653139
- Bolton, G. E. J. (2010). *Reflective practice: Writing and professional development (3rd ed.)*. Thousand Oaks, CA: Sage Publications.
- Bonwell, C. C., & Eison, J. A. (1991). *Active learning: Creating excitement in the classroom*. ASHE-ERIC Higher Education Report No. 1. Washington, DC: The George Washington University, School of Education and Human Development.
- Bryk, A. S., Gomez, L., Grunow, A., & LeMaheiu, P. (2015). *Learning to improve: How America's schools can get better at getting better*. Cambridge, MA: Harvard Education Press.
- Chickering, A. W., Gamson, Z. F. (1987). Seven principles for good practice in undergraduate education. *American Association of Higher Education Bulletin*, 3-7.
- Chiu, M. M. (2000). Group problem-solving processes: Social interactions and individual actions. *Journal for the Theory of Social Behavior*, 30(1), 26-49. doi: 10.1111/1468-5914.00118
- Cochran-Smith, M., & Lytle, S. L. (1999). Relationships of knowledge and practice: Teacher learning in communities. *Review of Research in Education*. 24(1), 249-305. doi: 10.3102/0091732X024001249.
- Cranton, P. (2012). *Planning instruction for adult learners (3rd ed.)*. Toronto, Ontario, Canada: Wall & Emerson.
- Dillenbourg, P. (1999). *Collaborative learning: Cognitive and computational approaches*. Advances in Learning and Instruction Series. New York: Emerald Group Publishing Limited.
- Donovan, M. S., Bransford, J. D., & Pellegrino, J. W. (1999). *How people learn: Bridging research and practice*. Washington, DC: National Academy Press.
- Drago-Severson, E. (2004). *Helping teachers learn: Principal leadership for adult growth and development*. Thousand Oaks, CA: Corwin.
- Drago-Severson, E. (2016). Use a variety of practices to connect with all. *Journal of Staff Development*, 37(1), 38-42.
- Farmer, J. A., Buckmaster, A. & LeGrand, B. (1992). Cognitive apprenticeship. *New Directions in Adult and Continuing Education* 55: 41–49.
- Freeman, S., Eddy, S.L., McDonough, M., Smith, M. K., Okoroafor, N., Jordt, H., & Wenderoth, M. P. (2014). Active learning increases student performance in science, engineering, and mathematics. *Proceedings of the National Academy of Sciences of the U.S.A.*, 111(23), 8410-8415. doi: 10.1073/pnas.1319030111
- Grabinger, R. S., & Dunlap, J. C. (1995). Rich environments for active learning: A definition. *Research in Learning Technology*, 3(2), 5-34. doi: 10.1080/0968776950030202
- Great Schools Partnership (2013). Authentic learning. *The glossary of education reform*. Retrieved from <http://edglossary.org/authentic-learning>
- Hansman, C. A. (2001). Context-based adult learning. *New Directions for Adult and Continuing Education*, 2001(89), 43-52.
- Hansman, C. A. (2017). Adult learning theories in mentoring relationships and models. In V.C.X. Wang (Ed.), *Theory and practice of adult and higher education*. Charlotte, NC: Information Age Publishing.

- Hanson, A. (1996). The search for a separate theory of adult learning: Does anyone really need andragogy? In Edwards, R., Hanson, A., & Raggatt, P. (Eds.). *Boundaries of Adult Learning (Adult Learners, Education, and Training)*, 1, 99-108. New York, NY: Routledge.
- Heifetz, R. A., & Linsky, M. (2002). *Leadership on the line: Staying alive through the dangers of leading*. Cambridge, MA: Harvard Business Review Press.
- Jentz, B. (2007). *Talk sense: Communicating to lead and learn*. Acton, MA: Research for Better Teaching.
- Kirschner, P. A., Sweller, J., & Clark, R. E. (2006). Why minimal guidance during instruction does not work: An analysis of the failure of constructivist, discovery, problem-based, experiential, and inquiry-based teaching. *Educational Psychologist*, 41(2), 75-86. doi: 10.1207/s15326985ep4102\_1
- Knowles, M. S. (1980). *The modern practice of adult education: From pedagogy to andragogy*. New York: Cambridge, The Adult Education Company.
- Kozulin, A. (2003). *Vygotsky's educational theory in cultural context*. Cambridge, UK: Cambridge University Press.
- Ladson-Billings, G. (2006). From the achievement gap to the education debt: Understanding achievement in U.S. schools. *Educational Researcher*, 35(7), 3-12.
- Lipton, L., & Wellman, B. (2007). How to talk so teachers listen. *Educational Leadership*, 65(1), 30-34.
- Loughran, J. J. (2002). Effective reflective practice: In search of meaning in learning about teaching. *Journal of Teacher Education*. 53(1): 33-43. doi: 10.1177/0022487102053001004
- Mann, R. S., Abbas, A., Kohl, H., Orth, R., Görmer, M. (2010). *Global survey on business improvement and benchmarking*. Global Benchmarking Network.
- McKinney, K. (2010). *Active learning*. Illinois State University, Center for Teaching, Learning & Technology. Archived from the original on 2011-09-11.
- Merriam, S. B., & Bierema, L. L. (2014). *Adult learning: Linking theory and practice*. San Francisco, CA: Jossey-Bass.
- Mezirow, J., Taylor, E. W., & Associates (2009). *Transformative learning in practice: Insights from community, workplace, and higher education*. San Francisco, CA: Jossey-Bass.
- Milner, H. R., IV (2010). *Start where you are, but don't stay there: Understanding diversity, opportunity gaps, and teaching in today's classrooms*. Cambridge, MA: Harvard Education Press.
- Mitnik, R., Recabarren, M., Nussbaum, M., & Soto, A. (2009). Collaborative robotic instruction: A graph teaching experience. *Computers & Education*, 53(2), 330-342.
- Mullainathan, S. (2015, January 3). Racial bias, even when we have good intentions. *The New York Times*. Retrieved from <https://www.nytimes.com/2015/01/04/upshot/the-measuring-sticks-of-racial-bias-.html>
- O'Dell, C., & C. J. Grayson (1998). If only we knew what we know: Identification and transfer of internal best practices. *California Management Review*, 40(3), 154-174.
- Peterson, L. (2007). Authentic learning environments. *ETEC 510 Wiki, University of British Columbia*. Retrieved September 26, 2017 from [http://etec.ctlt.ubc.ca/510wiki/Authentic\\_Learning\\_Environments](http://etec.ctlt.ubc.ca/510wiki/Authentic_Learning_Environments)
- Prince, M. (2004). Does active learning work? A review of the research. *Journal of Engineering Education*, 93(3), 223-231.
- Renkl, A., Atkinson, R. K., Maier, U. H., & Staley, R. (2002). From example study to problem solving: Smooth transitions help learning. *Journal of Experimental Education*, 70(4), 293-315.
- Schön, D. A. (1983). *The reflective practitioner: How professionals think in action*. New York: Basic Books.

- Shuell, T. J. (1986). Cognitive conceptions of learning. *Review of Educational Research*, 56(4), 411-436.
- Steele, C. M. (2011). *Whistling Vivaldi: How stereotypes affect us and what we can do*. New York: W.W. Norton & Company.
- Taylor, E. W. (2008). Transformative learning theory. In S. Merriam (Ed.), *Third update on adult learning theory. New Directions for Adult and Continuing Education*, 2008(119), 5-16. doi: 10.1002/ace.301
- Vygotsky, L. S. (1978). Interaction between learning and development. In L. S. Vygotsky & M. Cole, *Mind in society: The development of higher psychological processes*. Cambridge, MA: Harvard University Press.
- Welsh, J. F., & Metcalf, J. (2010). Administrative support for institutional effectiveness activities: responses to the 'new accountability.' *Journal of Higher Education Policy and Management*, 25(2).
- Wright, M. C., Goldwasser, M., Jacobson, W., & Dakes, C. (2017). Assessment from an educational development perspective. *To Improve the Academy*, 36, 39–49. doi:10.1002/tia2.20051
- Yew, E. H. J., & Schmidt, H. G. (2012). What students learn in problem-based learning: A process analysis. *Instructional Science*, 40(2), 371-95. doi: 10.1007/s11251-011-9181-6

#### DOMAIN 4: CLINICAL PRACTICE

- Anast-May, L., Buckner, B., & Geer, G. (2011). Redesigning principal internships: Practicing principals' perspectives. *International Journal of Educational Leadership Preparation*, 6(1), 1-7.
- Billitteri, T. J. (2009). The value of a college education: Is a four-year degree the only path to a secure future? *CQ Researcher*, 19(41), 981-1004.
- Bradshaw, L. K., Perreault, G., McDowelle, J. O., & Bell, E. W. (1997, November). *Evaluating the results of innovative practices in educational leadership programs*. Paper presented at the annual conference of the Southern Regional Council for Educational Administration, Charleston, SC.
- Bridge.jobs (n.d.). *Employer guide to structuring a successful internship program. A collaborative effort of all of Rhode Island's colleges and universities*. Retrieved from [http://career.bryant.edu/resources/files/RI%20Employer%20Guide%20Good%20Internships%20are%20Good%20Business%20\(3\).pdf](http://career.bryant.edu/resources/files/RI%20Employer%20Guide%20Good%20Internships%20are%20Good%20Business%20(3).pdf)
- Burns, M. K., Aitkenhead, J. M., Frederick, C. M., & Huddy, S. (2013). Undergraduate internship expectations: Strategic encouragement of student involvement. *Inquiries Journal/Student Pulse*, 5(12), 1-2. Retrieved from <http://www.inquiriesjournal.com/a?id=838>
- Chance, E. W. (1990). *The administrative internship: Effective program characteristics*. Paper presented at the annual meeting of the National Council of Professors of Educational Administration, Los Angeles, CA.
- Chandler, M., Chan, T. C., & Jiang, B. (2013). The effectiveness of an embedded approach to practicum experiences in educational leadership: Program candidates' perspectives. *International Journal of Teaching and Learning in Higher Education*, 25(1), 79-91.
- D'Abate, C. P., Youndt, M. A., & Wenzel, K. E. (2009). Making the most of an internship: An empirical study of internship satisfaction. *Academy of Management Learning & Education*, 8(4), 527-539.



- Darling-Hammond, L., LaPointe, M., Meyerson, D., Orr, M. T., & Cohen, C. (2007). *Preparing school leaders for a changing world: Lessons from exemplary leadership development programs*. Stanford, CA: Stanford University, Stanford Educational Leadership Institute.
- Deal, T. E., & Kennedy, A. A. (1982). *Corporate cultures: The rites and rituals of corporate life*. New York: Basic Books.
- Dewey, J. (1997). *Experience and education*. New York: Free Press.
- Fain, P. (2017, June 14). New money and new players on apprenticeships. *Inside Higher Ed*. Retrieved from <https://www.insidehighered.com/news/2017/06/14/white-house-apprenticeship-push-will-include-funding-and-focus-alternative-providers>
- Freestone, R., Williams, P., Thompson, S., & Trembath, K. (2007). A quantitative approach to assessment of work-based learning outcomes: An urban planning application. *Higher Education Research & Development*, 26(4), 347-361.
- Fry, B., Bottoms, G., & O'Neill, K. (2005). *Challenge to lead series: The principal internship: How can we get it right?* Atlanta, GA: Southern Regional Education Board.
- Hoffman, N. (2011). *Schooling in the workplace: How six of the world's best vocational education systems prepare young people for jobs and life*. Cambridge, MA: Harvard Education Press.
- Hora, M. T., Wolfgram, M., & Thompson, S. (2017). What do we know about the impact of internships on student outcomes? Results from a preliminary review of the scholarly and practitioner literatures. *Center for Research on College-Workforce Transitions Research Brief #2*. Retrieved from <http://ccwt.wceruw.org/documents/CCWT-report-Designing-Internship-Programs.pdf>
- Kolb, A. Y., & Kolb, D. A. (2005). Learning styles and learning spaces: Enhancing experiential learning in higher education. *Academy of Management Learning & Education*, 4(2), 193-212.
- Mitgang, L. (2012). *The making of the principal: Five lessons in leadership training*. New York: The Wallace Foundation.
- National Association of Colleges and Employers (2011). *Position statement: U.S. internships*. Retrieved from [www.nacweb.org/advocacy/position-statements/united-states-internships.aspx](http://www.nacweb.org/advocacy/position-statements/united-states-internships.aspx)
- O'Neill, N. (2010). Internships as a high-impact practice: Some reflections on quality. *Peer Review*, 12(4), 4-8.
- Orton, J. D., & Weick, K. E. (1990). Loosely coupled systems: A reconceptualization. *Academy of Management Review*, 15(2), 203-223.
- Pounder, D., & Crow, G. (2005). Sustaining the pipeline of school administrators. *Educational Leadership*, 62(8), 56-60.
- Resnick, L. B. (1987). The 1987 presidential address learning in school and out. *Educational Researcher*, 16(9), 13-54.
- Schein, E. H. (1985). *Organizational culture and leadership*. San Francisco, CA: Jossey-Bass.
- Silva, P., Lopes, B., Costa, M., Melo, A. I., Dias, G. P., Brito, E., & Seabra, D. (2016). The million-dollar question: Can internships boost employment? *Studies in Higher Education*, 1-20.
- True, M. (n.d.). *Starting and maintaining a quality internship program*. Retrieved from <https://www.binghamton.edu/ccpd/employers/documents/starting-maintaining-quality-internship-programlo.pdf>
- University of Notre Dame, The Career Center (n.d.). *Internships: An employer's guide to developing an internship program*. Retrieved from [https://careercenter.nd.edu/assets/136851/employer\\_internship\\_development\\_guide.pdf](https://careercenter.nd.edu/assets/136851/employer_internship_development_guide.pdf)
- University of Wisconsin, School of Business, Business Career Center (n.d.). *Designing a successful internship program*. Retrieved from [https://bus.wisc.edu/~media/bus/recruit-hire/internship\\_guide.ashx](https://bus.wisc.edu/~media/bus/recruit-hire/internship_guide.ashx)

- Walker, S. (2017). *State of Wisconsin: Budget in brief*. Madison, WI: Division of Executive Budget and Finance, Department of Administration. Retrieved from <http://doa.wi.gov/Documents/DEBF/Budget/Biennial%20Budget/2017-19%20Executive%20Budget/17-19%20BIB%20FINAL%20revised%2002082017.pdf>
- Westerberg, C., & Wickersham, C. (2011). Internships have value, whether or not students are paid. *The Chronicle of Higher Education*. Retrieved from <http://www.chronicle.com/article/Internships-Have-Value/127231/>

#### DOMAIN 5: PERFORMANCE ASSESSMENT

- Bennett, R. E. (2011). Formative assessment: A critical review. *Assessment in Education: Principles, Policy & Practice*, 18(1), 5-25. doi: 10.1080/0969594X.2010.513678
- Biggs, J. B., & Tang, C. (2011). *Teaching for quality learning at university: What the student does* (4<sup>th</sup> ed.). New York: McGraw-Hill Education.
- Black, P., & McCormick, R. (2010). Reflections and new directions. *Assessment & Evaluation in Higher Education*, 34(5), 493-499.
- Black, P., & Wiliam, D. (1998). Assessment and classroom learning. *Assessment in Education*, 5(1), 7-74. doi: 10.1080/0969595980050102
- Dunn, K. E., & Mulvenon, S. W. (2009). A critical review of research on formative assessments: The limited scientific evidence of the impact of formative assessments in education. *Practical Assessment, Research & Evaluation*, 14(7). Retrieved from <http://pare-online.net/pdf/v14n7.pdf>
- Howard, T. C. (2003). Culturally relevant pedagogy: Ingredients for critical teacher reflection. *Theory into Practice*, 42(3), 195-202.
- Stiggins, R. J. (2002). Assessment crisis: The absence of assessment FOR learning. *Phi Delta Kappan*, 83(10), 758-765.
- Stiggins, R. J. (2005). From formative assessment to assessment FOR learning: A path to success in standards-based schools. *Phi Delta Kappan*, 87(4), 324-328. Retrieved from <http://www.jstor.org/stable/20441998>

#### DOMAIN 6: GRADUATE PERFORMANCE OUTCOMES

- Daloisio, J. (2017). *Principal churn: A case study on principal turnover and strategies to build sustainability and continuity* (Doctoral dissertation). Retrieved from <http://d-scholarship.pitt.edu/33237/>
- Goldring, R., & Taie, S. (2014). *Principal attrition and mobility: Results from the 2012–13 Principal Follow-up Survey* (NCES 2014-064rev). Washington, DC: U.S. Department of Education, National Center for Education Statistics. Retrieved from <http://nces.ed.gov/pubsearch> (accessed 2017 October)
- Spady, W. G. (1994). *Outcome-based education: Critical issues and answers*. Arlington, VA: American Association of School Administrators.

## Appendix:

### Exemplars from the Field of Level 3 and Level 4 Artifacts

In response to requests from users for concrete examples of supporting evidence of design and implementation, this appendix draws from an extensive catalogue of artifacts submitted by QM users as examples of the types of products and practices that programs identify when selecting supporting evidence for level 3 and level 4 ratings. Featured artifacts were submitted by QM users as part of their self-study process and are intended for use as reference only.

In an effort to continue advancing the field of principal preparation's understanding of what one might expect to observe as evidence of effective training and preparation products and practices, we gratefully acknowledge the following contributors for their willingness to share their work: **Augusta University, Florida Atlantic University, Gardner-Webb University, Kennesaw State University, Lehman College CUNY, North Carolina State University, San Diego State University, Southern Connecticut State University, University of Connecticut, University of Georgia, and Virginia State University.** Additionally, we extend sincere thanks to all QM users for their willingness to share their program's evidence-based products and practices with their colleagues in order to advance the collective learning of the field.

#### ABOUT THIS APPENDIX:

- Organized by program domain to include examples of both **evidence of design** and **evidence of implementation**
- Includes highlights and call-outs to emphasize key areas of focus
- Includes program provider names
- Aligns with the Evidence Strength Continuum

NOTE: Special thanks to **Melissa Lin, QM Center Project Coordinator**, for her tireless efforts to compile, organize, and display selected artifacts for inclusion in this appendix.

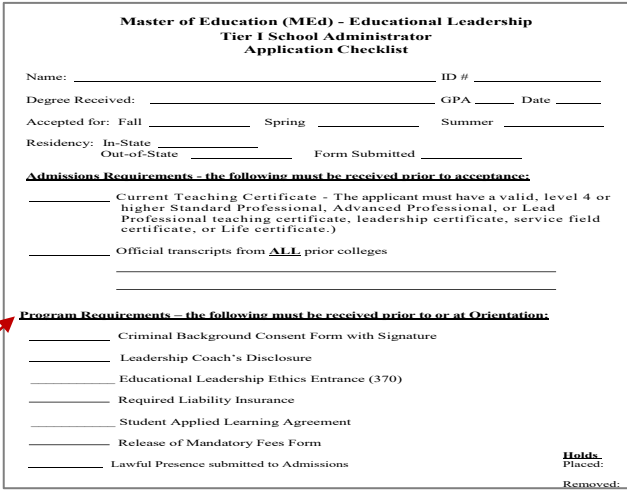
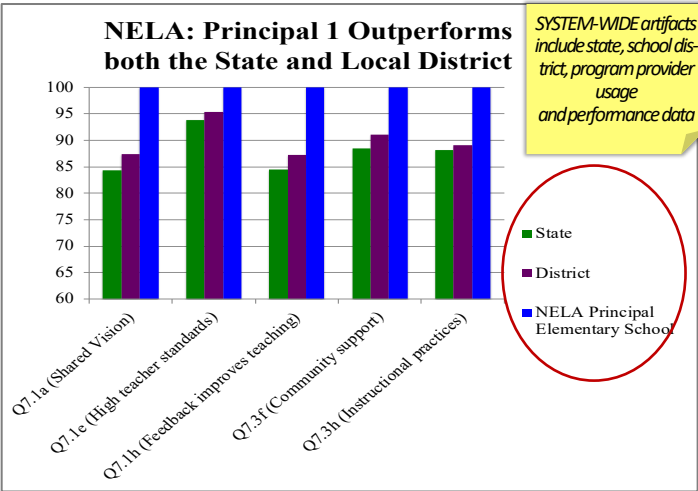
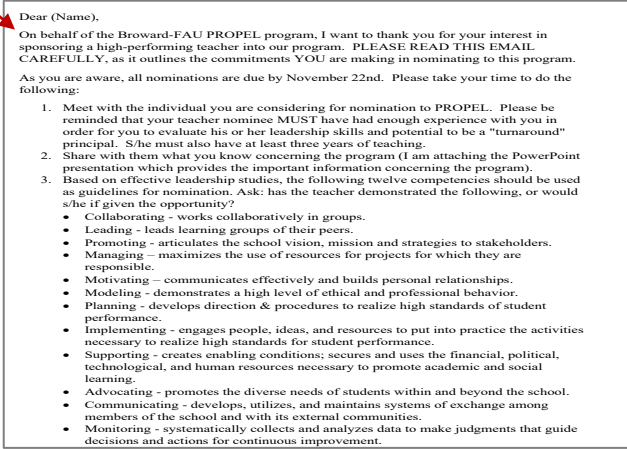


## QM Evidence Strength Continuum

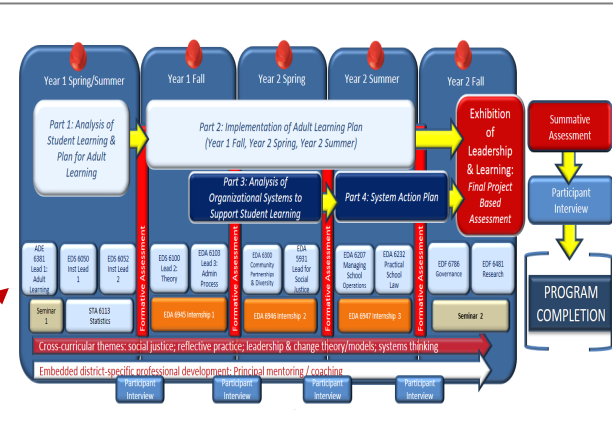
Please see page 9 for a detailed overview of the QM Evidence Strength Continuum.

EVIDENCE STRENGTH	TYPE 1: EVIDENCE OF DESIGN	TYPE 2: EVIDENCE OF IMPLEMENTATION	EXAMPLES OF IMPLEMENTATION EVIDENCE
<b>LEVEL 4</b> <i>Strongest</i>	Artifacts demonstrate that <i>ALL</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts demonstrate <a href="#">system-wide implementation</a> of the indicator criteria for the domain	<i>State, school district, and preparation program provider</i> usage and performance data
<b>LEVEL 3</b> <i>Stronger</i>	Artifacts demonstrate that <i>MOST</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts demonstrate <a href="#">program-wide implementation</a> of the indicator criteria for the domain	<i>Program-wide</i> artifacts include faculty- and student-wide performance data
<b>LEVEL 2</b> <i>Strong</i>	Artifacts demonstrate that <i>SOME</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts demonstrate <a href="#">individual course implementation</a> of the indicator criteria for the domain	<i>Individual course</i> artifacts include usage and performance data for selected faculty and students
<b>LEVEL 1</b> <i>Weak</i>	Artifacts demonstrate that <i>FEW/NO</i> indicator criteria have been met <a href="#">at the design level</a> for the domain	Artifacts <a href="#">do not yet demonstrate implementation</a> of the indicator criteria for the domain at this time	

# User Exemplars for Domain 1: Candidate Admissions

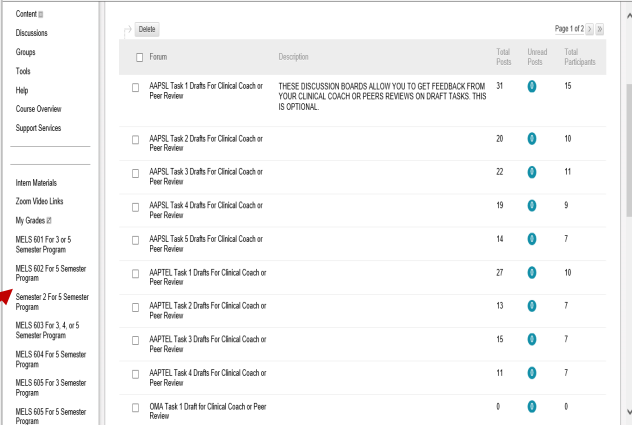
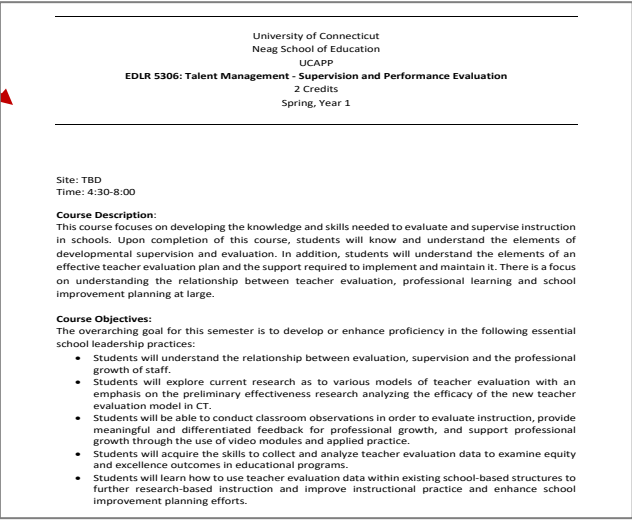
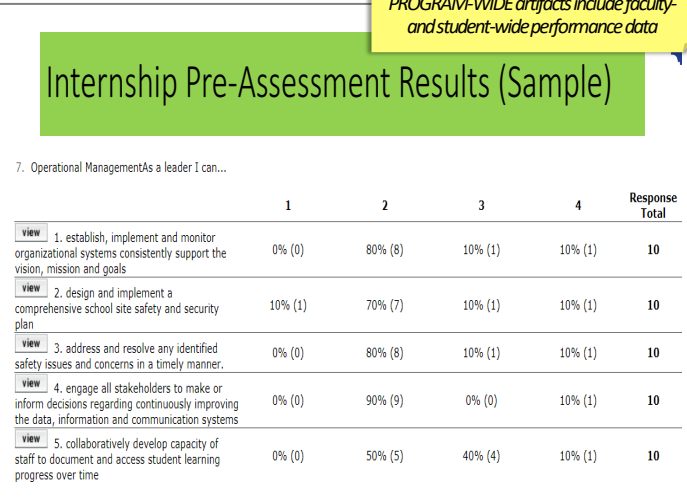
EVIDENCE STRENGTH	TYPE 1: EVIDENCE OF DESIGN	EXAMPLES OF DESIGN EVIDENCE	TYPE 2: EVIDENCE OF IMPLEMENTATION	EXAMPLES OF IMPLEMENTATION EVIDENCE
LEVEL 4 Strongest	<p>Artifacts demonstrate that ALL indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 6: Candidate Selection</b>  <b>Artifacts Description:</b> MEd Leader Application Checklist  <b>Program Contributor:</b> Augusta University</p> 	<p>Artifacts demonstrate <u>system-wide implementation</u> of the indicator criteria for the domain</p>	<p><b>Indicator 2: Recruitment Practices</b>  <b>Artifacts Description:</b> Program Impact Data 2015  <b>Program Contributor:</b> North Carolina State University</p>  <p>SYSTEM-WIDE artifacts include state, school district, program provider usage and performance data</p>
		<p>Design evidence does NOT YET demonstrate implementation</p>	<p><b>Indicator 2: Recruitment Practices</b>  <b>Artifacts Description:</b> Email to Nominating Principals and Program Nomination Memo  <b>Program Contributor:</b> Florida Atlantic University</p> 	<p>Artifacts demonstrate <u>program-wide implementation</u> of the indicator criteria for the domain</p>
LEVEL 3 Stronger	<p>Artifacts demonstrate that MOST indicator criteria have been met <u>at the design level</u> for the domain</p>			

# User Exemplars for Domain 2: Course Content

EVIDENCE STRENGTH	TYPE 1: EVIDENCE OF DESIGN	EXAMPLES OF DESIGN EVIDENCE	TYPE 2: EVIDENCE OF IMPLEMENTATION	EXAMPLES OF IMPLEMENTATION EVIDENCE
<p><b>LEVEL 4 Strongest</b></p>	<p>Artifacts demonstrate that <b>ALL</b> indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 5: Course Coherence</b>  <b>Artifacts Description:</b> Program Curriculum Model  <b>Program Contributor:</b> Florida Atlantic University</p> 	<p>Artifacts demonstrate <u>system-wide implementation</u> of the indicator criteria for the domain</p>	<p><i>SYSTEM-WIDE artifacts include state, school district, program provider usage and performance data</i></p> <p><i>Please stay tuned as QM tools are continually being updated...</i></p>
<p><b>LEVEL 3 Stronger</b></p>	<p>Artifacts demonstrate that <b>MOST</b> indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 1: Standards</b>  <b>Artifacts Description:</b> Alignment of CAPE/Program Framework/PSEL Standards  <b>Program Contributor:</b> San Diego State University</p> <p>ALIGNMENT OF CAPE/SDSU FRAMEWORKS/PSEL STANDARDS</p> <ul style="list-style-type: none"> <li>e. Develop and support open, productive, caring, and trusting working relationships among leaders, faculty, and staff to promote professional capacity and the improvement of practice.</li> <li><b>h. Encourage faculty-initiated improvement of programs and practices.</b></li> <li>8. <b>Meaningful Engagement of Families and Community: Effective educational leaders engage families and the community in meaningful, reciprocal, and mutually beneficial ways to promote each student's academic success and well-being.</b></li> <li>b. Create and sustain positive, collaborative, and productive relationships with families and the community for the benefit of students.</li> <li>d. Maintain a presence in the community to understand its strengths and needs, develop productive relationships, and engage its resources for the school.</li> <li>e. Create means for the school community to partner with families to support student learning in and out of school.</li> <li>g. Develop and provide the school as a resource for families and the community.</li> <li>9. <b>Operations and Management: Effective educational leaders manage school operations and resources to promote each student's academic success and well-being.</b></li> <li>b. Strategically manage staff resources, assigning and scheduling teachers and staff to roles and responsibilities that optimize their professional capacity to address each student's learning needs.</li> <li>e. <b>Protect teachers' and other staff members' work and learning from disruption.</b></li> <li>Develop and maintain data and communication systems to deliver actionable information for classroom and school improvement.</li> <li>8. improvement.</li> <li>j. Develop and manage productive relationships with the central office and school board.</li> <li>10. <b>School Improvement: Effective educational leaders act as agents of continuous improvement to promote each student's academic success and well-being.</b></li> <li>a. Seek to make school more effective for each student, teachers and staff, families, and the community.</li> <li>c. Prepare the school and the community for improvement, promoting readiness, an imperative for improvement, instilling mutual commitment and accountability, and developing the knowledge, skills, and motivation to succeed in improvement.</li> <li>e. Employ situationally-appropriate strategies for improvement, including transformational and incremental, adaptive approaches and attention to different phases of implementation.</li> <li>j. Develop and promote leadership among teachers and staff for inquiry, experimentation and innovation, and initiating and implementing improvement.</li> </ul> <p>The above list represents the results from the external evaluator. All PSEL indicators that do not have a partner within the SDSU framework or the CAPEs is listed above. The highlighted indicators indicate the important areas for our consideration in seeking alignment with PSELs:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Articulating and promoting core values that define school culture (1c and 2d)</li> <li><input type="checkbox"/> Ensuring children at the center of education and promoting mutual accountability for their success (2c, 7d, 10, 11c, 11d)</li> <li><input type="checkbox"/> Respect, cultural competence, and responsiveness (3a, 3b, 3c)</li> <li><input type="checkbox"/> Alignment across grade levels and use of data to monitor instructional planning (4b and 4g)</li> <li><input type="checkbox"/> Building a community of care and support for students (5a, 5b, 5c, and 5d)</li> <li><input type="checkbox"/> Building a leadership team and promoting leadership and innovation among staff (6g, 7h)</li> <li><input type="checkbox"/> Having a presence in the community and building relationships for meaningful involvement (8b, 8d, 8e, and 8g)</li> <li><input type="checkbox"/> Strategic management of staffing and scheduling to guard instructional time and best use human capital (6b, 9b, 9c)</li> </ul>	<p>Artifacts demonstrate <u>program-wide implementation</u> of the indicator criteria for the domain</p>	<p><b>Indicator 4: Course Evaluation</b>  <b>Artifacts Description:</b> Ed.D. Assessment Report Cycle  <b>Program Contributor:</b> University of Georgia</p> <p><b>Program Name:</b> Educational Leadership - ED  <b>Reporting Cycle:</b> Oct 1, 2016 to Sep 30, 2017  <b>Academic Program Coordinator:</b> John Dayton</p> <p><b>Description of Program</b>      The University of Georgia's Ed.D. in Educational Leadership is a performance-based program designed to prepare school and system leaders who can advance the knowledge and practice of PreK-12 educational administration and support school and system improvement. This 55 semester-hour program of study, in partnership with Georgia school districts, will develop outstanding practitioner/scholars who can effectively lead schools and school districts in the 21st century. This doctoral program in Educational Leadership effectively integrates coursework, research, and practice. The core coursework emphasizes studies in learning communities and professional development, organizational leadership, and school-community relations. Students will also acquire essential knowledge and practice in education law, finance, policy analysis, curriculum, and supervision. There are three key milestones throughout the Ed.D. Program in Educational Leadership that lead to the completion of an Action Research dissertation. These milestones are designed to fulfill the Graduate School's specifications as well as to ensure active connection with the Major Professor and doctoral committee beginning early in and throughout the program.</p> <p><b>Outcome Student Learning Outcome 1</b>      EdD students in Educational Leadership will collect and analyze data to construct a problem statement that will be the focus of a change intervention and will conduct a targeted literature review that undergirds the action research project.</p> <p><b>Measure Critical Milestone I - Written Examination</b>      The work of Critical Milestone I is to delve into the research on the system problem that is the focus of the action research and to share initial framing of both the action and the inquiry that will be undertaken to address the problem. The written examination for Critical Milestone I is a 35-40 page report of: (1) engagement with the school district (2) data collected and analyzed to co-construct the problem that will be the focus of the change intervention, and (3) the conceptual framework and related literature that undergirds the project.</p> <p><b>Threshold for success (if available)</b>  <b>Threshold for success:</b> 90% of students will successfully pass the written portion of Critical Milestone I.</p> <p><b>Data Collected</b> CMSI Written Report      100% (23 of 23 students) in the Cohort III Action Research EdD Program passed the written examination portion of Critical Milestone I.</p> <p><b>Analysis of Data</b>      A collaborative review of written CMSI submissions indicates that the action research case studies in the EdD program are growing strongly in terms of problem formation and articulation of the theoretical and conceptual frameworks.</p> <p><b>Improvement Based on Analysis</b>      Faculty members continued to embed opportunities to develop scholarly literature review and writing skills assignments in core EdD program classes. Educational leadership program faculty continued to hold individual and small group research and writing workshops with EdD students.</p> <p><b>Outcome Student Learning Outcome 2</b>      EdD students in Educational Leadership will develop a research-based intervention design and implementation plan.</p> <p><b>Measure Critical Milestone II - Written Examination</b></p>



# User Exemplars for Domain 4: Clinical Practice

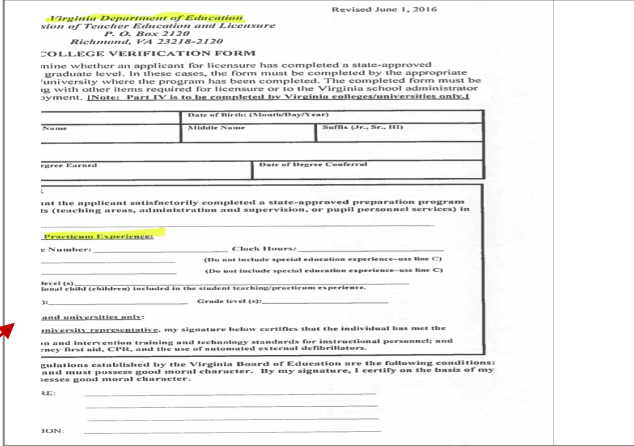
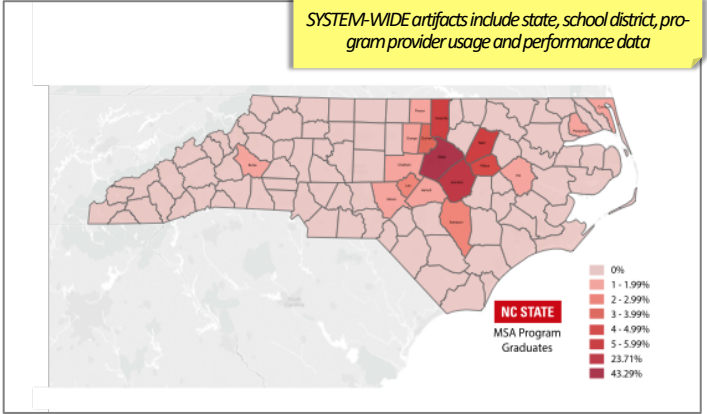
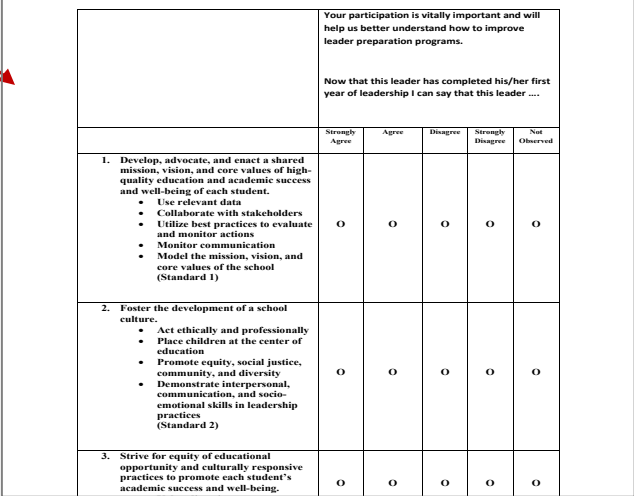
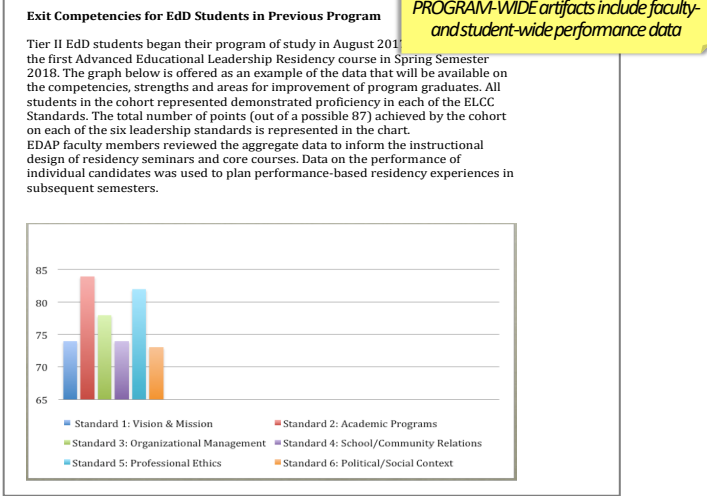
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<p><b>LEVEL 4</b> Strongest</p>	<p>Artifacts demonstrate that <b>ALL</b> indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 4: Clinical Supervision</b>  <b>Artifacts Description:</b> Discussion Boards for Receiving Clinical Coach or Peer Review Feedback  <b>Program Contributor:</b> Gardner-Webb University</p> 	<p>Artifacts demonstrate <u>system-wide implementation</u> of the indicator criteria for the domain</p>	<p><i>SYSTEM-WIDE artifacts include state, school district, program provider usage and performance data</i></p> <p><i>Please stay tuned as QM tools are continually being updated...</i></p>
<p><b>LEVEL 3</b> Stronger</p>	<p>Artifacts demonstrate that <b>MOST</b> indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 1: Clinical Design</b>  <b>Artifacts Description:</b> Course Syllabus  <b>Program Contributor:</b> University of Connecticut</p> 	<p>Artifacts demonstrate <u>program-wide implementation</u> of the indicator criteria for the domain</p>	<p><b>Indicator 6: Clinical Evaluation</b>  <b>Artifacts Description:</b> Internship Pre-Post Survey Sample Results  <b>Program Contributor:</b> Southern Connecticut State University</p> <p><i>PROGRAM-WIDE artifacts include faculty- and student-wide performance data</i></p> 



# User Exemplars for Domain 5: Performance Assessment

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Use additional sheet if necessary.</p> <p>The signatures below verify the beginning leader candidate has the opportunity to discuss this performance assessment with the supervisory/building or system administrator and the university representative.</p> <p>Advanced Leader Candidate _____ Date _____</p> <p>Supervisory/Building or System Administrator _____ Date _____</p> <p>University Representative _____ Date _____</p>	<p>Artifacts demonstrate <u>program-wide implementation</u> of the indicator criteria for the domain</p>	<p><b>Indicator 2: Candidate Performance Targets</b>  <b>Artifacts Description:</b> Cohort Performance by Standards Report  <b>Program Contributor:</b> San Diego State University</p> <p>11/30/2018 Performance by Standards Report - Main Results</p> <p><b>Report: Performance by Standards Report</b>  <b>Report Generated by:</b> Zakkizkall  <b>DRF Template(s):</b> EDL Preliminary Credential, EDL Preliminary Credential 2014-15  <b>Program(s):</b> EDL ASC Regional/South Bay Cohort 2014  <b># Authors:</b> 21 Authors matched search criteria  <b>Report Generated:</b> Thursday, November 03, 2016</p> <p><b>Benchmark: 1(a) Each candidate is able to facilitate the development of a s</b></p> <table border="1"> <thead> <tr> <th>Rubric Criteria</th> <th>Authors evaluated</th> <th>Results for Group</th> <th>Graph (avg. for group)</th> </tr> </thead> <tbody> <tr> <td> <p>Vision of school's graduates  <b>Folio Area:</b> Benchmarks: Initial Platform (EDL 610)  <b>DRF Template:</b> EDL Preliminary Credential 2014-15</p> </td> <td>21 of 21 (100%)</td> <td>Avg. = 2.50/3 (83.33%)</td> <td>Bar chart showing 100% proficiency</td> </tr> <tr> <td> <p>Leadership beliefs: Non-negotiable  <b>Folio Area:</b> Benchmarks: Initial Platform (EDL 610)  <b>DRF Template:</b> EDL Preliminary Credential 2014-15</p> </td> <td>21 of 21 (100%)</td> <td>Avg. = 3.00/3 (100.00%)</td> <td>Bar chart showing 100% proficiency</td> </tr> <tr> <td> <p>Leadership beliefs: Student Achievement  <b>Folio 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<p>Leadership beliefs: Student Achievement  <b>Folio Area:</b> Benchmarks: Final Platform (EDL 655)  <b>DRF Template:</b> EDL Preliminary Credential 2014-15</p>	21 of 21 (100%)	Avg. = 3.00/3 (100.00%)	Bar chart showing 100% proficiency																																													
<p>Leadership beliefs: Leadership and Management  <b>Folio Area:</b> Benchmarks: Final Platform (EDL 655)  <b>DRF Template:</b> EDL Preliminary Credential 2014-15</p>	21 of 21 (100%)	Avg. = 3.00/3 (100.00%)	Bar chart showing 100% proficiency																																													
<p>Implementation Plan: Student Learning and Professional Growth</p>	21 of 21 (100%)	Avg. = 2.72/3 (90.74%)	Bar chart showing 100% proficiency																																													

# User Exemplars for Domain 6: Graduate Performance Outcomes


EVIDENCE STRENGTH	TYPE 1: EVIDENCE OF DESIGN	EXAMPLES OF DESIGN EVIDENCE	TYPE 2: EVIDENCE OF IMPLEMENTATION	EXAMPLES OF IMPLEMENTATION EVIDENCE
<p><b>LEVEL 4</b> Strongest</p>	<p>Artifacts demonstrate that <b>ALL</b> indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 3: School District Eligibility</b>  <b>Artifacts Description:</b> State-Approved Program Verification Form  <b>Program Contributor:</b> Virginia State University</p> 	<p>Artifacts demonstrate <u>system-wide implementation</u> of the indicator criteria for the domain</p>	<p><b>Indicator 3: School District Eligibility</b>  <b>Artifacts Description:</b> State/District Map and Program Graduate Placement Data  <b>Program Contributor:</b> North Carolina State University</p> 
<p><b>LEVEL 3</b> Stronger</p>	<p>Artifacts demonstrate that <b>MOST</b> indicator criteria have been met <u>at the design level</u> for the domain</p>	<p><b>Indicator 1: Exit Competencies</b>  <b>Artifacts Description:</b> Survey to Employers of 1<sup>st</sup> Year Leaders  <b>Program Contributor:</b> Augusta University</p> 	<p>Artifacts demonstrate <u>program-wide implementation</u> of the indicator criteria for the domain</p>	<p><b>Indicator 1: Exit Competencies</b>  <b>Artifacts Description:</b> Example of Exit Competencies Assessment Data  <b>Program Contributor:</b> University of Georgia</p> 

Design evidence does NOT YET demonstrate implementation

SYSTEM-WIDE artifacts include state, school district, program provider usage and performance data

PROGRAM-WIDE artifacts include faculty- and student-wide performance data





**Program  
Faculty**

**School  
Districts**

**State Education  
Associations**

**Aspiring School  
Principals**