

TI Professional Development Research Basis »

TI professional development services incorporate nine components of professional development that are supported by empirical research and professional wisdom.¹

These key components have the following characteristics:

- » Address student learning needs
- » Incorporate hands-on technology use
- » Are job-embedded
- » Have application to specific curricula
- » Address knowledge, skills and beliefs
- » Occur over time
- » Occur with colleagues
- » Provide technical assistance and support to teachers
- » Incorporate evaluation

The review of carefully selected research-based documents

This included 14 experimental and quasi-experimental studies that met criteria for scientifically-based research as defined by the No Child Left Behind Act and the National Research Council. Each key component was identified as an element of successful professional development in at least two studies.

Sources² included:

- » North Central Regional Education Laboratory (NCREL)
- » National Staff Development Council (NSDC)
- » The Knowledge Look Web site, sponsored by LAB at Brown University
- » National Awards Program for Model Professional Development



For more information, visit education.ti.com/research.

For information about TI professional development services, visit education.ti.com/t3.

KEY COMPONENTS OF PROFESSIONAL DEVELOPMENT	HOW TI PROFESSIONAL DEVELOPMENT SERVICES INCORPORATES THESE COMPONENTS
Student learning focused	<ul style="list-style-type: none"> » Being aligned to standards » Focusing on specific student learning content » Promoting the use of graphing calculators to facilitate meaningful learning » Tailoring content to specific student needs
Hands-on opportunities	<ul style="list-style-type: none"> » Being activity-based » Focusing on specific technology skills » Applying it to specific curriculum content » Using activities that are well suited for classroom use
Job-embedded resources	<ul style="list-style-type: none"> » Having school/district follow-up plans » Using Train-the-Trainer content » Featuring online courses
Curriculum support	<ul style="list-style-type: none"> » Including workshops that cover specific curriculum/topics » Having clear content tie-in for modules and activities
Instructional support and integration	<ul style="list-style-type: none"> » Preparing teachers to apply research-supported instructional strategies » Promoting practices that transform teacher roles
Ongoing practice and results	<ul style="list-style-type: none"> » Having school/district follow-up plans » Using Train-the-Trainer content » Featuring online courses
Colleague collaboration	<ul style="list-style-type: none"> » Being implemented with TI Professional Development » Aligning to local goals, Train-the-Trainer, or follow-up plans
Technical and career assistance	<ul style="list-style-type: none"> » Including online course support and coaching » Offering free technical assistance and website resources
Evaluation process	<ul style="list-style-type: none"> » Pre- and post-assessment of participant knowledge and skills

The future of TI professional development services

As education curricula and classroom pedagogies evolve, TI will remain committed to providing the effective educator professional development based on proven research and professional wisdom.

¹ The Institute for the Advancement of Research In Education at AEL. (2003, December). "Description of Texas Instruments Educational & Productivity Solutions Division approach to professional development." Prepared for Texas Instruments Educational & Productivity Solutions Division, and The Institute for the Advancement of Research In Education at AEL. (2004, April). "Review of the research: Nine components of effective professional development." Prepared for Texas Instruments Educational & Productivity Solutions Division. See education.ti.com/research

² Review of material from key research-based sources (NCREL, NSDC, National Awards Program for Model Professional Development, Knowledge Loom website at <http://knowledgeloom.org/pd>)