

### **6.07 Instructional Technology Specialist (Grades K-12)**

To be endorsed as an instructional technology specialist, an applicant shall hold a Colorado initial or professional teacher license endorsed in an approved endorsement area; have completed an approved course of study for the preparation of instructional technology specialists at an accepted institution of higher education, including a supervised practicum or internship as an instructional technology specialist; and have three or more years of teaching experience.

6.07(1) The instructional technology specialist is knowledgeable about technology operations and concepts and is able to assist teachers in:

6.07(1)(a) effectively teaching students about technology concepts and skills at all developmental levels.

6.07(1)(b) utilizing technology and information literacy resources and strategies in teaching students in all content areas.

6.07(2) The instructional technology specialist is able to plan design, organize and implement learning environments and experiences and is able to assist teachers in:

6.07(2)(a) identifying and applying instructional technology and information literacy principles associated with the development and implementation of long- and short-term instructional plans.

6.07(2)(b) developing and maintaining engaging learning environments that include hands-on technology experiences for students in individual, small group, classroom and lab settings.

6.07(2)(c) providing guidance as requested regarding the purchasing of school- and district-based technology tools.

6.07(2)(d) identifying, recommending and assisting in the procurement and implementation of appropriate adaptive/assistive hardware and software for learners with special needs.

6.07(2)(e) applying current research with regard to facilities- and technology-planning issues.

6.07(3) The instructional technology specialist is knowledgeable about teaching, learning and the curriculum and is able to assist teachers in:

6.07(3)(a) designing and delivering a standards-based curriculum enhanced by teacher and student use of technology.

6.07(3)(b) incorporating technology and information literacy resources that enhance higher order thinking skills and creativity in students.

6.07(3)(c) designing instructional technology methods, techniques and instructional materials for learners with diverse backgrounds, characteristics and abilities.

6.07(3)(d) evaluating student progress related to instructional technology and to students' ages and grade levels, content, language and other developmental challenges.

6.07(3)(e) assisting students in overcoming barriers to using technology for learning.

6.07(3)(f) organizing and managing instructional technology.

6.07(4) The instructional technology specialist is knowledgeable about assessment and evaluation and is able to assist educators in:

6.07(4)(a) selecting and applying data-collection tools to determine the effectiveness of instructional strategies.

6.07(4)(b) using technology resources to collect and analyze data, interpret results and communicate findings to improve instructional practice and maximize student learning.

6.07(4)(c) using technology appropriately and effectively to improve learning, based upon evaluation and assessment data.

6.07(4)(d) applying multiple methods of evaluation to improve and increase student use of technology resources, for learning, communication and productivity.

6.07(5) The instructional technology specialist is knowledgeable about productivity and professional practice related to technology and is able to assist educators in:

6.07(5)(a) integrating technology-based tools into practice related but not limited to productivity, delivery of instruction, information research, school management and evaluation of computer-based instructional tools into instructional and administrative settings.

6.07(5)(b) applying technology to enhance and improve productivity and professional practice.

6.07(5)(c) using technology resources for ongoing professional development.

6.07(5)(d) reviewing professional practice on an ongoing basis to insure informed decision-making with regard to the use(s) of technology in support of student learning.

6.06(5)(e) professional development, utilizing proven, effective and documented adult learning theory.

6.06(6) The instructional technology specialist is knowledgeable about and able to inform teachers about social, ethical, legal and human issues related to technology, and is able to:

6.06(6)(a) apply technology resources to enable learners with diverse backgrounds, characteristics and abilities to receive an optimal education.

6.06(6)(b) be an active advocate for providing equitable access to technology resources for all students.

6.06(6)(c) develop and implement strategies to inform school and other relevant personnel about social, ethical and legal issues related to technology and provide support to educators and administrators with regard to the responsible use(s) of technology.

6.06(6)(d) be knowledgeable about current copyright laws and able to assist others in adhering to those laws in the delivery of instruction and in related planning processes.

6.06(6)(e) model and teach legal, ethical and safe practices related to technology use.

6.06(7) The instructional technology specialist is knowledgeable about communication and is able to:

- 6.06(7)(a) assist teachers in effectively communicating and collaborating with peers, parents and interested others in developing school/community support for technology and its multiple uses in education settings.
  - 6.06(7)(b) assist teachers in the effective use of telecommunication and media tools and resources for information sharing, remote information access, publishing and related activities.
  - 6.06(7)(c) effectively present information about technology and its issues to a variety of stakeholders including, but not limited to, staff, parents and students and to include effective strategies for increasing the use of technology resources in support of student instruction.
  - 6.06(7)(d) demonstrate strategies to educators about how to incorporate effective research findings in the instructional delivery of required content and in support of technology and information-literacy standards.
- 6.06(8) The instructional technology specialist shall self-assess the effectiveness of instruction, direction and/or supervision based on the achievement of students and pursue continuous professional development through appropriate activities, coursework and participation in relevant professional organizations.