

**PROGRAM FOR LICENSING ASSESSMENTS
FOR COLORADO EDUCATORS® (PLACE®)
OBJECTIVES
FIELD 051: INSTRUCTIONAL TECHNOLOGY**

Subarea	Approximate Percentage of Questions on Test
Foundations of Instructional Technology	20%
Learning Environments and Experiences	50%
Professional Practice and Productivity	30%

FOUNDATIONS OF INSTRUCTIONAL TECHNOLOGY

Understand the role of technology and its social, ethical, legal, and human issues.

Includes the evolving roles of technology in society and its potential for the future; strategies for promoting the legal, ethical, and responsible use of technology and information systems (e.g., observing copyright laws, citing electronic sources, following acceptable use policies); strategies for promoting the safe use of technology (e.g., protecting students from inappropriate information and interactions, security and confidentiality of personal data); awareness of health problems related to the use of technology; strategies for applying technology to enable and encourage learners with diverse backgrounds, characteristics, and abilities to receive an optimal education; and facilitating equitable access to technology for all students.

Understand the basic operations and support of technology in an educational setting.

Includes types and characteristics of technology systems found in the educational environment; terminology related to technology; basic systems support (e.g., installation, maintenance, troubleshooting); strategies for identifying and troubleshooting common problems; and the identification and use of available support resources and information to resolve technical problems.

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LEARNING ENVIRONMENTS AND EXPERIENCES

Understand principles of planning and designing learning environments and experiences supported by technology.

Includes the application of educational technology and information literacy principles associated with the development and implementation of short- and long-term instructional planning; the application of current research on teaching and learning with technology to design effective learning environments and experiences; the development and use of technology-enhanced experiences that address content and student technology standards; the design and use of developmentally appropriate learning opportunities that incorporate technology, including the use of learner-centered strategies that address the diverse needs of all learners; design principles for developing instructional materials; and strategies for identifying, locating, and evaluating technology resources.

Understand the use of technology to facilitate the development of problem-solving capabilities, higher-order thinking skills, and creativity.

Includes methods and strategies for using technology resources to solve problems and make informed decisions; methods for designing instruction that employs technology to develop strategies for solving real-world problems; strategies for applying technology in the development of students' higher-order thinking skills and creativity; and the use of technology to organize, analyze, apply, synthesize, and evaluate information.

Understand how to implement and manage effective learning environments supported by technology.

Includes strategies for the management of diverse student learning in a technology-enhanced environment; strategies for improving student learning through the use of technology-supported assessment; strategies for modifying instructional delivery to meet the needs of all students, including the use of adaptive and assistive devices; and methods for developing and modifying lessons to fit the classroom and the available technology.

Understand the use of technology for research, collaboration, and communication (information literacy).

Includes methods and strategies for teaching the use of technology to conduct research, including locating, evaluating, and collecting information from a wide variety of sources; for teaching the use of a variety of media and formats to effectively communicate information and ideas to multiple audiences; and for teaching the use of technology to collaborate, publish, and interact with peers, experts, and other audiences.

Understand the use of technology to enhance student productivity.

Includes methods and strategies for teaching students how to increase productivity by using technology to process data, report results, construct technology-enhanced models, prepare publications, and produce other creative works.

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PROFESSIONAL PRACTICE AND PRODUCTIVITY

Understand the use of technology to enhance professional productivity.

Includes strategies for identifying, retrieving, indexing, and sharing information resources; strategies for using technology to collaborate with peers, parents, and stakeholders in support of student learning; the selection and evaluation of appropriate tools for instruction, materials creation, and classroom management; and the application of distance learning options.

Understand applications of technology in assessment and evaluation.

Includes the use of technology to assess student learning of subject matter and the collection and analysis of data, interpretation of results, and articulation of findings to inform instructional practice and maximize student learning.

Understand strategies and resources for professional development in instructional technology.

Includes methods for evaluating and reflecting on professional practice to make informed decisions regarding the uses of technology in support of student learning; the use of technology resources to engage in ongoing professional development, including staying up-to-date on current research and emerging technologies; appropriate activities and coursework for pursuing continuous professional development; and knowledge of professional standards and organizations in instructional technology.