

Design Guidelines for Mine Safety Training

ACCESSIBLE Make activities and media accessible to a target audience that includes mine workers and safety trainers.	
DG1	Choose resources that promote acceptance of learning objectives across sites and demographics.
DG2	Remediate skills through custom tutorials that incorporate best practices in training pedagogy.
DG3	Allow novices to manipulate all relevant data easily and synonymously.
DG4	Streamline context switches and the flow of information to support dynamic task needs.
DG5	Promote hands-on interaction with equipment through realistic forms, constraints, and usage.
CONTEXTUAL Provide a meaningful context for training that includes suitable details and perspective relative to the learner's experience.	
DG6	Support a range of effective training media and presentation needs on demand.
DG7	Make information available to learners when and where they need it, at a suitable level of detail.
DG8	Provide suitable perspective on the environment, with clear relationships between important data.
DG9	Use realistic, site-relevant examples that ground information in the learner's experience.
CONSEQUENT Illustrate the consequences of choices relative to ambient features and activities in the workplace.	
DG10	Underscore the progression of time and correlate events across media.
DG11	Incorporate dynamic exercises and media that require tough choices in hypothetical situations.
DG12	Provide learners with timely, context-relevant feedback on their progress, actions, and decisions.
PRACTICAL Develop communities of practice in safety training through situated, story-driven scenarios.	
DG13	Use story-driven scenarios and evolving content to engage learners and encourage participation.
DG14	Encourage team activities that allow for dynamic discourse among learners.
DG15	Use an apprenticeship model that couples situated learning with competency-based evaluation.