Training and Development



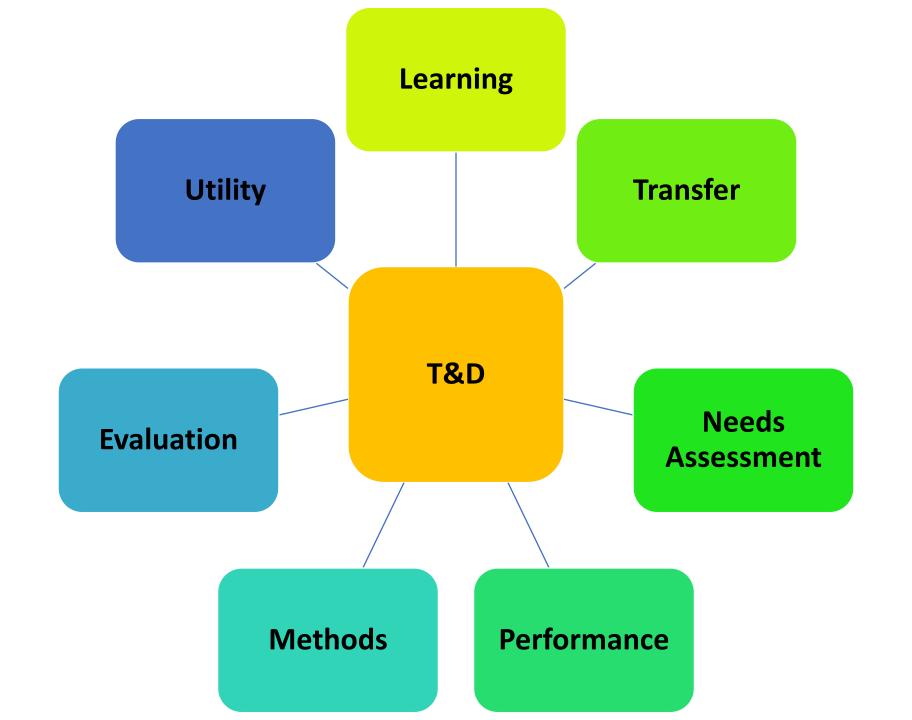
Agenda

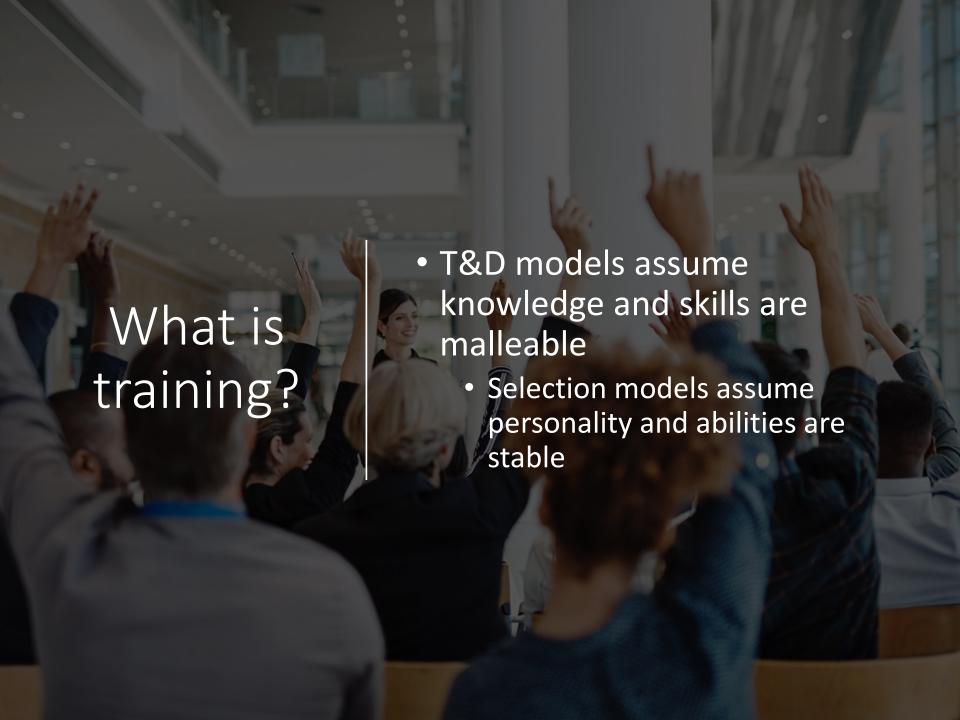
- What is training? What is development?
- What is training needs analysis?
- What is learning? What impacts learning? How do we learn? How do we practice?
- What training methods can we use?
- How do we evaluate training programs?

What is training? What is development?

What is training?

- Training: Systematic acquisition of skills, concepts, or attitudes resulting in improved performance in another environment
- Benefits
 - Can increase profitability per employee
 - Can enhance employees' value to the organization
 - Can help the organization attract and retain talent





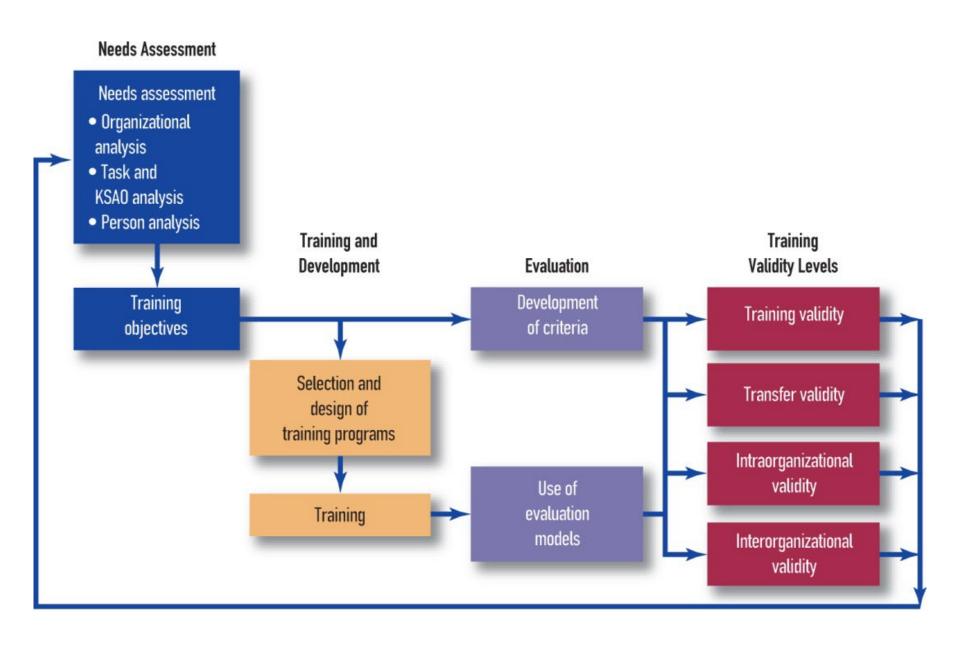


What is development?

 Development: Formal education, job experiences, mentoring relationships, and assessments of personality and abilities that help employees prepare for the future

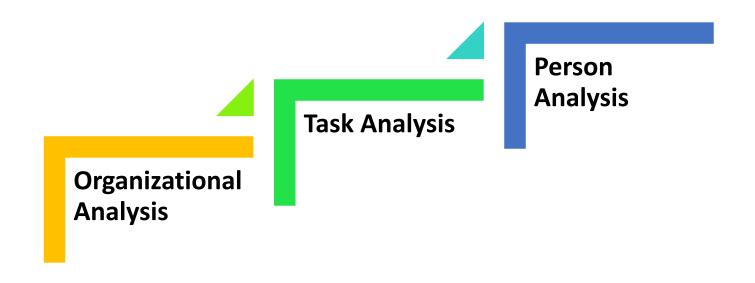


What is training needs analysis?



What is training needs analysis?

• Training needs analysis: A 3-step process required to develop a systematic understanding of where training is needed (*organizational*), what needs to be trained (*task*), and who will be trained (*person*)



What is organizational analysis?

- Organizational analysis: Examines the organization's goals, resources, and environment to determine where training should be directed
- Assesses the needs of departments, managers, and peers as well as technological support
- Considers the organization's culture and climate
- Aligns training with the organization's strategy and HR functions

What is task analysis?

- Task analysis: Examines what employees must do to perform job properly through job analysis
- Establishes a link between tasks and KSAOs
 - Develop task statements
 - Determine homogeneous task clusters
 - Identify the KSAOs required for each cluster

What is person analysis?

- Person analysis: Examines which individuals should receive training and what kind of training they need
- Relies on objective performance data and assessments of KSAOs, personality, and experience



What is learning? What impacts learning? How do we learn? How do we practice?

What is learning?

- Learning: A relatively permanent change in KSAOs and behavior produced by experience and practice
 - Using rehearsal, learning occurs through repetition.
 - Organizing involves finding similarities and themes across training content.
 - To elaborate means relating the material to other more familiar knowledge.

What is learning?

- Transfer of training: The application of what was learned in training to the job
 - Generalization: The application of what was learned to situations that are similar but not identical to those encountered during training
 - Maintenance: The continued use of what was learned over time

What impacts learning?

- Trainee readiness: The extent to which trainees can learn from a training program and apply it to the job
 - Goal orientation
 - Performance orientation: Concerned about doing well in training and being evaluated positively
 - Mastery orientation: Concerned about increasing competence and learning from errors

What impacts learning?

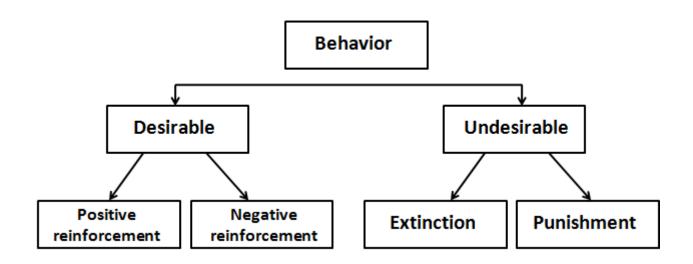
- Trainee readiness: The extent to which trainees can learn from a training program and apply it to the job
 - Intelligence and experience level
 - Inexperienced, low "g" trainees benefit from longer, more structured training
 - Experienced, high "g" trainees benefit from shorter, less structured training

What impacts learning?

- Trainee motivation: The extent to which trainees are interested in attending training, learning from it, and applying it to their job
 - Expectancy framework: Suggests motivation is affected by trainees' expectations about their effort, performance, and outcomes

How do we learn?

- Reinforcement theory: Suggests learning occurs when behaviors are associated with rewards
 - Positive reinforcement: Following a desired behavior with a reward



How do we learn?

 Social learning theory: Suggests learning occurs in social situations

Observational learning:

Trainees learn by observing others performing a task

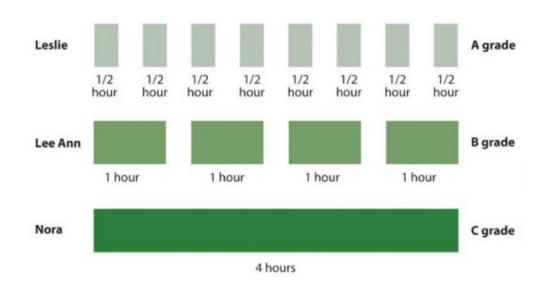
Self-efficacy: Trainees learn when they believe in their capability to perform

Goal setting: Trainees learn by establishing goals that direct attention

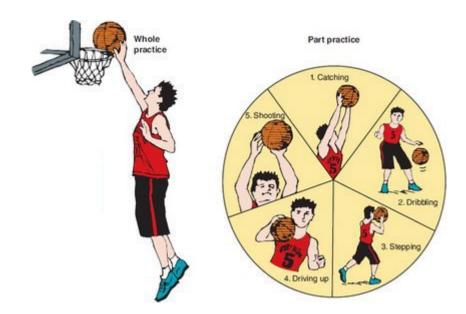
Feedback: Trainees learn from the results of their actions

- Fidelity: The extent to which the training task is similar to the job task
 - Physical fidelity: The extent to which the training task mirrors the physical features of the job task
 - Psychological fidelity: The extent to which the training task helps trainees develop the KSAOs needed to succeed on the job

- Massed practice: When the task is practiced in one session without rest
- Distributed practice:
 When the task is practiced over multiple sessions with breaks



- Whole learning: When the entire task is practiced at once
- Part learning: When subtasks are practiced separately and later combined



- Overlearning: The continuous practice of new skills even after demonstrating proficiency
- Automaticity: Occurs when tasks can be performed with limited attention
 - Developed by presenting learning opportunities even after mastery is demonstrated

- Classroom lecture:
 Presents information
 through spoken words
 and audiovisual
 materials
- Variations include team teaching, guest speakers, panels, and student presentations

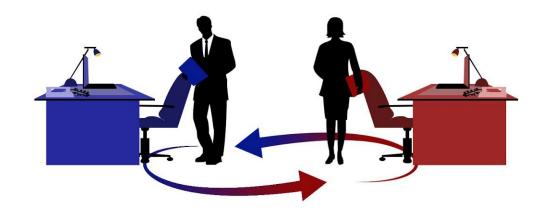


- On-the-job training:
 Enables trainees to
 observe and learn from
 more experienced
 employees
- Apprenticeship: Formal training program used to teach a skilled trade
 - Skills may NOT be transferable





- Case study: The process of analyzing and critiquing the company or employees and making recommendations
- Role plays: Require trainees to assume a role and explore what is involved in it



- Adventure learning:
 Uses structured group activities that take place off-site
- Team training: The coordination of members' KSAOs and behaviors to achieve a shared goal



- E-learning: Presents information via computer through the internet
- Simulators: Reproduces the actual work environment in a training setting

 Augmented reality (AR): Brings digital elements into the physical world • Virtual reality: Total immersion in an artificial environment



- Distance learning:

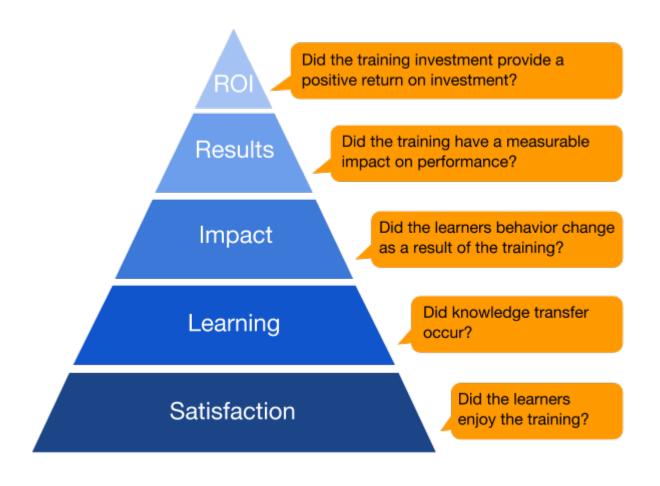
 Allows trainees to learn
 from a distant location
- Blended learning:
 Combines face-to-face learning with distance learning



- Training effectiveness: The benefits of training
- Training evaluation: A systematic collection of information that can be used to make decisions
- Training outcomes: The criteria and corresponding measures used to evaluate training effectiveness
- Evaluation design: How, when, what, and from whom training data is collected

- The evaluation of a training program can:
 - Gauge strengths and weaknesses.
 - Evaluate the impact of design elements.
 - Determine who benefitted and why.
 - Collect information for marketing purposes.
 - Identify the program's ROI.





- Internal criteria: Assesses trainees' reactions to and learning in the training program
 - **Reaction criteria:** Measure of trainees' perceptions of and satisfaction with the training program
 - **Net promoter scores (NPS)** reflect the likelihood that trainees will recommend the program to their colleagues.
 - Learning criteria: Measure of trainees' learning
 - Cognitive, skill-based, and affective outcomes

- External criteria: Assesses whether training impacts trainees' behaviors on the job
 - Transfer criteria: Measure of how well the behaviors learned in training transfer to the job
 - Results criteria: Measure of how well training can be related to organizational outcomes
 - Return-on-investment (ROI): Measure of the return or gain on the investment in a program

- Various designs provide evidence of training effectiveness
 - Random assignment of participants to conditions
 - Control group
 - Measures obtained before and after training



- Post-test-only design: Involves a single measurement of outcomes at the end of training
- Pre-test/post-test design: Compares trainees' scores from before and after training
- Post-test-only with comparison group design:
 Compares the training group's scores after training with the comparison group's scores without training

- Pre-test/post-test with comparison group design:
 Compares the training group and the comparison group once before training and once after the training group completes training
- Solomon four-group design: Combines post-testonly with comparison group and pre-test/post-test with comparison group
- Time series design: Compares trainees' scores on pre-tests and post-tests before and after training