# 1. DEFINITION OF EVALUATION

Evaluation is defined as a systematic process by which the worth or value of something is judged. Evaluation in Physical education can be defined as a continuous process based upon criteria which cooperatively developed and concerned with measurement of:

- The performance of learners.
- The effectiveness of teachers
- The quality of the programme

## Evaluation could be of:

- Students
- Teachers
- Programmes and courses in relation to educational objectives.

## 2. PURPOSES OF EVALUATION

- (a) Incentive to Learn (motivation)
- (b) Incentive to perform (motivation)
- (c) Feedback to student/trainee
- (d) Modification of Learning/training
  Activities

- (e) Selection of students/trainee
- (f) Success or failure
- (g) Feedback to teacher/coach
- (h) University/College/Department/School public relations
- (i) Protection of society (certification of competence)

# 3. COMPONENTS OF EVALUATION

Five basic components of evaluation are as under:

- 1. Audience,
- 2. Purpose,
- 3. Questions
- 4. Scope, and
- 5. Resources

To determine these components, one must ask the following questions:

- For what audience is the evaluation being conducted?
- For what purpose is the evaluation being conducted?

- . What questions will be asked in the evaluation?
- . What is the scope of the evaluation?
- · What resources are available to conduct the evaluation?

Measurement and Evaluation examples in Our Daily Routine are

- alarm clock
- petrol pump gauge
- speedometer
- meeting new people
- opinion of the class
- current trends
- public health initiatives
- · promotion of physical activity/physical education
- · problems with obesity or NCDs (non communicable diseases)
- evaluation standards for school/college programmes

#### Evaluation

Definition 1: The process of making judgments about the results of measurement in terms of the purpose of the measurement.

Definition 2: The process of obtaining information (data) and using it to form judgments, which in turn are used in decision making.

decisions which involves interpretation of a score. Hence, place value judgment on the measurement.

Terminology review can be made from the following such as Which is a measurement?, Which is a test? or Which is an evaluation?

- skinfold caliper
- 55 mm

AND SHAPE

You are in the healthy fitness zone.

'Skinfold caliper' is a test; '55 mm' is a measurement whereas 'You're in the healthy fitness zone' is an evaluation.

Therefore, evaluation involves measurement (collecting data), judging the value of the data by comparing data to some standard and making decisions based on these data.

## 4. KEY FOCUS OF EVALUATION

Evaluations may be focused on progress in student learning (student evaluation), the effectiveness of Institution/school programmes (programme evaluation), and the effectiveness of the curriculum (curriculum evaluation). Teachers also reflect on the effectiveness of their instruction (teacher self-evaluation).

Evaluation of Students: Assessment techniques are selected or designed to gather data/information related to how well students are achieving the learning objectives of the curriculum. The specific assessment technique used at any given time depends on several factors, including the type of learning outcomes namely movement skill development, fitness development, conceptual understanding, personal and social skills, attitudes and values; the subject area content, the instructional strategies used, the student's level of development and the specific purposes of the evaluation. Various tests and measurement techniques are used to evaluate students / trainees/players on different parameters.

Evaluation of Programme: Evaluation of a programme is a systematic process of Evaluation is use of measurement in making gathering and analyzing data/information about some aspect of a programme (may be college/ school/training/coaching) in order to make a decision or to communicate to others involved in the decision-making process.

> Evaluation of a programme can be conducted at two levels: relatively informally at the team level/classroom level or more formally at the laboratory/ground/classroom. institute/school or state/national levels.

At the team level/classroom level, evaluation of a programme is used to determine whether the programme being presented to the trainees/sportspersons/students is meeting their

needs and the objectives prescribed by the in the assessment phase, data information talanner or administration. Evaluation of a is gathered from students, teachers and and of the programme but is an ongoing process. from educators indicates the degree to which For example, if particular lessons/training the curriculum is being implemented, as well assion appear to be poorly received by students' as the strengths and weaknesses of the trainees or if they do not seem to demonstrate curriculum. The information from students the proposed learnings from a unit of training indicate how well they are achieving the study/coaching, the problem must be proposed learning outcomes and may provide investigated and changes should be made.

EVALUATION TOOLS AND TECHNIQUES IN PHYSICAL EDUCATION

By evaluating their programmes at the laboratory/ground/classroom, instructors/ practitioners. The data/information gathered should be conducted during the implementation through programme evaluation will assist phase for new curricula and regularly on a instructors/coaches/trainers/teachers in pro- rotating basis thereafter. gramme planning and in making decisions for improvement.

Most evaluations of programmes at the team level/classroom level are relatively informal, but they should be done systematically. Such evaluations should include identification of the area of concern, collection and analysis of data/ information and judgment or decision-making.

Evaluation of Curriculum: At the institution or state level. Evaluation of Curriculum involves making judgments about the effectiveness of authorized curricula in order to find out if they are being effectively implemented and whether they are meeting the needs of students.

Evaluation of Curriculum involves gathering data/infor nation in order to determine how well the curriculum is performing. The principal reasons for curriculum evaluation are to make improvements such as changes to the curriculum document to provide resources or inservice to teachers.

It is projected that evaluation of curriculum be a shared, collaborative effort involving all of the main education partners in the institution/ state/nation. Physical education teachers contribute in the development of instruments. validation, field testing, scoring and data interpretation.

regramme is not necessarily conducted at the administrators. The data/information obtained indications about their attitudes toward the curriculum.

All curricula must be included within the ceaches/trainers/teachers become thoughtful scope of curriculum evaluation Evaluations

#### Self-Evaluation of Teacher

An important aspect of good teaching practice is that of self-evaluation of teacher. Teachers can use various techniques to assess their strengths and weaknesses

Terms Clarification: To enhance understanding of the evaluation process, it is useful to distinguish between the terms assessment and evaluation.

Assessment is a preliminary phase in the evaluation process. In this phase, various techniques are used to gather information about student/traince progress.

Evaluation is the weighing of assessment information against some standard, such as the foundational objectives of the physical education curriculum, in order to make a judgment or decision. This may then lead to other decisions and action by the teacher/trainer, student/trainer or parent and administration or management.

#### 5. TYPES OF EVALUATION

There are three main types of studeni evaluation: formative, summative and diagnostic Assessment techniques are used to gather data/ information for each type of evaluation.

1. Formative evaluation is a cominuous classroom process that keeps students and

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educators informed of students' progress toward programme learning objectives

The main purpose of formative evaluation is to improve instruction and student learning. It provides teachers with valuable information upon which instructional modifications may be made. This type of evaluation helps teachers understand the degree to which students are learning the course material and the extent to which their skills, fitness levels, knowledge, understanding and attitudes are developing. Students are given direction for future learning and are encouraged to take responsibility for their own progress.

at the end of a unit of study. Its primary purpose is to determine what has been learned over a period of time, to summarize student progress and to report to students, parents and educators on progress relative to curriculum objectives.

Seldom are evaluations strictly formative or strictly summative. For example, summative evaluation can be used formatively to assist teachers in making decisions about changes to instructional strategies or other aspects of students' learning programmes. Similarly, formative evaluation may be used to assist teachers in making summative judgments about student progress. It is important that teachers/ trainers/coaches make clear to students/trainees the purpose of assessments and whether they may later be used summatively.

3. Diagnostic evaluation usually occurs at the beginning of the school year or before a unit of instruction. It identifies students who lack prerequisite skills, fitness, knowledge or understanding so that remedial help can be arranged. It also serves to identify gifted learners to ensure they are being sufficiently challenged. Diagnostic testing also identifies student interests. Diagnostic evaluation provides information essential to teachers in designing appropriate programmes for all students.

Teachers/trainers conduct all three types or evaluation during the course of the institution/ school year or course period.

#### GENERAL PRINCIPLES OF EVALUATION

the following five general guiding principles provide a framework to assist teachers in planning for student evaluation:

- (i) Evaluation is a planned and continuous activity: Evaluation is an essentiai part of the teaching-learning process. It should be a planned, continuous activity that is closely linked to both curriculum and instruction.
- (ii) Evaluation is directed by proposed 2. Summative evaluation occurs most often learning outcomes: Evaluation should be guided by the intended learning outcomes of the curriculum and a variety of assessment strategies should be used.
  - (ui) Evaluation process is communicated in advance: Evaluation plans should be communicated in advance. Students should have opportunities for input regarding the evaluation process. The weighting of criteria and in some instances the establishment of criteria can be negotiated among teacher and students.
  - (iy) Evaluation must be fair and impartial. It should be sensitive to family, classroom, school and community situations. It should be free of bias. Students should be given opportunities to demonstrate the extent of their skills, fitness levels, knowledge, understanding and attitudes.
  - (v) Evaluation is for positive feedback: Evaluation should help students. It should provide positive feedback and encourage students to participate actively in their own learning.

#### Phases of the Evaluation Process

Although evaluation is not strictly sequential, it can be viewed as a cyclical process made up of four phases namely preparation, assessment, evaluation and reflection. This process involves the teacher as a decision maker throughout all these four phases.

preparation phase, decisions are made that identify what is to be evaluated, the type of evaluation to be used (i.e. formative, summative or diagnostic), the criteria against which student learning outcomes will be judged and the most appropriate assessment techniques with which to gather information on student progress. The teacher's decisions in this phase form the basis for the remaining phases.

- 2. Assessment phase: During the assessment phase, the teacher identifies information-gathering strategies, constructs or selects instruments, administers them to the students, and collects and organizes the information on student learning progress. The teacher continues to make decisions in this phase. The identification and elimination of bias (e.g., gender and culture bias) from the assessment techniques and instruments, and determining where, when and how assessments will be conducted are examples of important considerations for the teacher.
- 3. Evaluation phase: During the evaluation phase, the teacher interprets the assessment information and makes judgments about student progress. Based on the judgments or evaluation, teachers make decisions about student learning programs and report on progress to students, parents and appropriate school personnel.
- 4. Reflection phase: The reflection phase allows the teacher to consider the extent to which the previous phases in the evaluation process have been successful. Specifically, the teacher evaluates the utility and appropriateness of the assessment techniques used. Such reflection assists the teacher in making decisions concerning improvements or modifications to subsequent teaching and evaluation.

#### 7. DATA/INFORMATION GATHERING AND RECORD KEEPING

Reporting to students and parents must be based upon real evidence. In order to build up

1. Preparation phase: During the a record of growth, teachers will have to rely to a great extent upon accurate observation and adequate record keeping.

Evaluation in physical education should focus on both process and content. Many of the objectives in the physical education curriculum are best assessed through ongoing observation

#### B. ASSESSMENT TECHNIQUES

#### Methods of Organization

These methods refer to the broad organizational structure of the assessment techniques a teacher/trainer may decide to use.

- Assessment Stations
- Individual Assessments
- Peer and Group Assessments
- Learning-Contracts
- Self-Assessment
- Portfolios

Data Recording Methods: These methods may be used within the structure of any of the methods of organization and with any of the ongoing student/trainee activities, as well as tests and quizzes.

- Anecdotal Records
- Observation Checklists
- Rating Scales

Ongoing Activities of Students: These techniques are those a teacher/trainer would use throughout the course of a regular institution / school working day when students/trainees are engaged in their usual learning activities.

- Performance Assessment
- Written Assignments
- Presentations
- Discussions
- Journal Writing
- Problem Solving
- Projects
- Homework
- Conferences/seminars
- Interviews

#### Standards for Evaluation

Norm-referenced Standard: Norms developed based on a large number of individuals. Norm-referenced Standards are used to judge performance in relation to the performances of others of a defined group. Percentile ranks are a common method for developing norms. Percentile rank is percentage that can be expected to score below a given value. If an individual's score reaches the 35th percentile, then that person scored better than 35% of the group.

Criterion-referenced Standard: This is used to determine if an individual has attained a specified level. A predetermined standard that shows whether an individual has achieved a desired level of performance. Hence, the performance of an individual is compared against a predetermined standard, not against the performance of others.

## Steps Involved in Making an Evaluation

- Define the objective or the purpose of the test.
- Measure the performance or administer the test.
- 3. Find or develop a standard.
- Compare a person's performance on the test to a standard.
- 5. Make the evaluation then discuss and distribute the results in the most appropriate manner.

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Association (APA) reported that validity is the most important characteristic to a test of measuring instrument. The validity of each test can only be evaluated in terms of a particular purpose and for a particular group.

Example: A strength test that is valid for audience-aged students is not necessarily valid for sudentary adults.

## 11. EVALUATION TECHNIQUES IN FHYSICAL EDUCATION

Some examples are as under

#### Age. Reight. Weight, and Body Types

- · Most out measurements were in this
- \* W 14 Shelden developed somatelypes:
  - Mesomorphy (muscular hardness)
  - Endomorphic (heavy soffness)

#### Fower Measurement

- · Vertical Jump Test (Dudley Sargent)
  - Correlates with 50 yd dash, high jump; standing broad jump; 8 lb shot put

#### Agility Measurement

Shumle run, Burpee Test

#### General Motor Ability Measurement

- · Brace Motor Ability Test
- Jowa Brace Test

#### Balance Measurement

#### Kinesthetic Measure

 Difficult to measure; has a great deal to do with physical performance

#### Flexibility Measurement

· Sit and Reach Test is an example

#### Rhythm and Dance Measurement

 No test which is easy for teachers to use with classes

#### Speed and Reaction Time Measurement

40 yd dash; 50 yd dash; 100 meters;
 Stick test (reaction)

#### Strength Measurement

• Dynamometers; weights (one-rep max);

#### Muscular Endurance Measure

 Pull-ups, push-ups, chin-ups, repetitive weight lifting (curls, bench press, etc.)

#### Cardiovascular Endurance

Harvard Step Test (field measure);
 Cooper Twelve-minute run-walk;

#### Physical Fitness Measurement

Military fitness tests; Kraus-Weber Test, AAHPERD Youth Fitness test etc.

## Sports Skill Measurement

Posture Measurement
Social Qualities Measurement
Knowledge Measurement
Psychological Parameters Measurement
Physiological Parameters Measurement
Biomechanical Analysis Measurement

#### Purposes of knowledge tests

- (a) Assigning a grade or summative evaluation
- (b) Measuring progress or formative feedback
- (c) Providing feedback to students or programme participants as to their status and what the class or programme knowledge expectations are?
- (d) Motivating students or programme participants to learn the material tested
- (e) Assessing teaching or instructional effectiveness

Construction and Administration of Psychomotor (Skill) Tests

### 12. TYPES OF PSYCHOMOTOR TESTS

Motor ability: The innate and acquired ability of an individual to perform motor skills of a general nature, exclusive of highly specialized sports or gymnastic skills.

# Measurement of motor ability no longer popular because :

- 1. Existence of general motor ability questioned; abilities specific to performance task.
  - 2. Construct validity of motor ability test batteries has never been established.
  - 3. Lack of consensus on what the components of motor ability are.

Motor capacity: The individual's potential ability to perform motor skills.

Motor educability: The individual's ability to learn new motor skills. These tests are no longer popular.

Prefer to measure physical performance components of agility, balance, cardio

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