

4.4 Monitoring and Evaluation of the Training Course

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4.4.1 Introduction

For the evaluation of the training course the following methods are proposed for use during the training activities and at the end of the course:

- Monitoring and personal notes by the trainer: recording the trainees’ work and commenting thereon
- Keeping a written personal or team diary by trainees themselves upon the end of each meeting: the trainer studies the diaries on each occasion and provides feedback at the next meeting
- Video-recording of trainees’ work (at least of the most significant phases)
- Evaluation of trainees’ worksheets
- Evaluation of the e-class forum
- Evaluation of trainees’ products
- Team interview of trainees at the end of the course.
- Filling a written questionnaire by trainees at the end of the course.

Some evaluation tools appropriate for the implementation of the above mentioned methods are presented in the next lines.

4.4.1 Trainees’ (personal or team) Diary

Date:

Name(s).....

..

What was the best thing that has happened to you today during the lesson?

.....

What was the worst thing that has happened to you today during the lesson?

.....

Comments

.....

4.4.2 Trainer Diary

Date

Trainer

The work of team today...

1. robot construction
 - has not been attempted
 - has been unsuccessfully attempted (description)
 - has been attempted with partial success (description....)
 - has been completed without assistance from the teacher (description....)
 - has been successfully completed with assistance from the teacher (what kind of assistance?....)
2. in constructing the robot the team used ...
 - insufficient pieces
 - just the basics
 - variety of materials
 - variety of materials in creative fashions
 - great variety of materials with high creativity which added functionality to the robot
3. experimented and tried varied work designs
 - many
 - quite a few
 - some
 - minimal
 - none
4. constructed a program on the PC aimed at controlling the robot's behavior
 - not attempted
 - unsuccessfully attempted (explain)
 - attempted with partial success (explain)
 - completed without assistance from the trainer

- successfully attempted with assistance from the trainer (what kind of assistance?)
5. the work of team ... today
- exceeded to a great extent my expectations
 - exceeded my expectations
 - met my expectations
 - did not meet my expectations
 - did not meet at all my expectations

4.4.3 Questionnaire (for trainees)

This questionnaire has been designed in such a way as to give us the necessary feedback on your part and help us to improve the TERECoP training course in which you have participated.

Name:

.....

A. Evaluation of Training Method

1. How do you evaluate the participation/involvement of the trainees in the training course activities?

- Very active
- Quite active
- Moderately active
- Barely active

Please explain...

2. What do you think of the balance that existed between the practical activities (on the part of the trainees) and the presentations (on the part of the trainers)?

- There has been proper balance
- I would like more practical activities
- I would like more presentations

Please explain...

3. What do you think of the support provided by the trainers?

- Very satisfactory

- Quite satisfactory
- Moderately satisfactory
- Unsatisfactory

Please explain...

4. What do you think of the duration of the course?

- Satisfactory
- I would like longer duration
- I would like shorter duration

Please explain...

5. Mention any difficulties that you came across during the course...

B. Evaluation of Training Materials

What do you think of the training materials (worksheets, examples by means of software, presentations etc.)

- Very useful
- Quite useful
- Moderately useful
- Barely useful

Please explain...

C. Evaluation of the e-class

1. What actions do you think the e-class has supported within the framework of the course?
2. State a positive experience from your communication via the e-class
3. State a negative experience from your communication via the e-class
4. Comment on the e-class tools in terms of their usefulness in the activities that they incited or supported and the services that they offered. ...

e-class tools	comments
Agenda	
Area of Plenary Sessions	
Areas of Team Discus-	

Documents	
Announcements	
Links	

D. Learning Experience and Incorporation in School Reality

1. Have you found in this course anything interesting that you could implement as a teacher in school class with your students?
2. in your opinion, in which of your school courses that you teach (or that you will teach in the future) you feel that the robotics training activities, can be utilized?
3. How do you assess the learning value that robotics training activities can add to teaching school lessons of your specialty?
 - Very important
 - Quite important
 - Somewhat important
 - Not important at all

Please explain...

E. Evaluate each one of the course’s constituent parts, as mentioned below, with a mark from the following scale:

6 = excellent, **5** = very good, **4** = satisfactory, **3** = moderately good, **2** = deficient **1** = very deficient

Parts of the Course	6	5	4	3	2	1
a. Training content						
b. Training method						
c. Support provided by the trainers						
d. Training materials						
e. Training results						
f. Electronic class						

F. What would you propose for the improvement of this training course?

Please add any other comments that you think they could be useful in evaluating the course

4. 4. 4 Semi-structured interview

Trainees discuss the following questions in teams for 30 minutes and, then, share their ideas with trainer in a plenary session.

1. Which of the tools/ techniques/ actions used in this course you think that they have followed the constructive teaching and learning approach? What would you propose towards that direction?
2. Which of the experiences /knowledge/ skills that you have acquired from that seminar you think you can implement in your class or anywhere else?
3. How can robotics (hardware and software) be incorporated in your school class?
4. What benefits do you expect for your students?
5. What difficulties do you expect that you might encounter?
6. What kind of support you would need?