ETRAP 2017

TRAIN-THE-TRAINER COURSE FOR RADIATION PROTECTION PROFESSIONALS

Floraine MARCUCCINI | CEA/INSTN/DPF

www.cea.fr
1 – Context of the train-the-trainer course

2 – ENETRAP III Train-The-Trainer course for Radiation Protection Professionals

3 – Results of the pilot session & improvements

4 – Conclusion
WP4
Train-The-Trainer course
for Radiation Protection Professionals

COUNCIL DIRECTIVE 2013/59/EURATOM of 5 December 2013
INVENTORY OF TRAIN-THE-TRAINER COURSES

 GENERIC TRAIN-THE-TRAINER COURSES

- CEGOS (FR); 21
- MMC FORMATION (FR); 3
- DEMOS (FR); 18
- ATD (EN); 11
- TOTAL SUCCESS (EN); 2
- AMA (EN); 1

ETRAP 2017 | PAGE 4
OBJECTIVES OF THE TRAINING COURSE

- Design training activities using the ECVET approach
- Identify the different European tools designed to support professional mobility
- Design playful and relevant learning situations,
- Identify innovative training tools
- Identify the training basic principles and good practices
- Give a short training session in front of a specialized audience
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction to TTT course: objectives &amp; programme</td>
<td>Training design methodology: group work &amp; practical exercises</td>
<td>Digital tools: presentation &amp; practical work</td>
<td>Technical visit: works &amp; demonstration</td>
<td>Deliver a training session in front of a specialized audience</td>
</tr>
<tr>
<td>10:00</td>
<td>Round table: crossed presentation / Sharing &amp; feedback experience</td>
<td></td>
<td>Technical visit: calculation software for dose calculation</td>
<td></td>
<td>Self-assessment of one's training sequence</td>
</tr>
<tr>
<td>11:00</td>
<td>ECVET approach: context</td>
<td>Self-assessment: what trainer are you?</td>
<td>Evaluation &amp; conclusion</td>
<td>How to design relevant learning materials?</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:00</td>
<td>ECVET approach: principles &amp; practical exercises</td>
<td>The fundamentals of training adults: learning factors &amp; good practices</td>
<td>Technical visit: DOSEO</td>
<td>Prepare a training session</td>
<td>Analysis &amp; debriefing of the training sessions</td>
</tr>
<tr>
<td>15:00</td>
<td>Technical visit: Practical field school</td>
<td>Technical visit: virtual space VERT</td>
<td>Technical visit: virtual space VERT</td>
<td></td>
<td>Evaluation &amp; conclusion of the TTT session</td>
</tr>
<tr>
<td>16:00</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
<td></td>
</tr>
</tbody>
</table>
Various innovative teaching methods and tools for the trainer

Towards a "pedagogical mix"

- Scenarios
- Digital tools
- Practical exercises
- Group work
- Handling
- Interactive presentations
- (Self-)assessments
- Discussion
- Technical visits
Use of the Kirkpatrick model

- Level 1: Reaction
  - Lecturers evaluation: participant opinion
  - Evaluation of the training: debriefing

- Level 2: Learning
  - Learning assessment

- Level 3: Behaviour
  - Knowledge assessment (before/after)

- Level 4: Results
LECTURERS EVALUATION: PARTICIPANTS OPINION

GENERAL AVERAGE OF THE TTT COURSE

- Interest for the subject
- Pedagogical expertise
- Documents distributed
- Duration
- Presentation document
What do you think of the size of 5 consecutive days?

What do you think of the structure & sequence of the sequences?

What sequence did you find most relevant? Why?

And the least relevant sequence? Why?

What would you add, delete, see differently in this training?
What do you think of the size of 5 consecutive days?

What do you think of the structure & sequence of the sequences?

What sequence did you find most relevant? Why?

And the least relevant sequence? Why?

What would you add, delete, see differently in this training?

- Everyday evaluation learning
- The ECVET approach: too early
- More time on practical work sequences
- Add a sequence on speaking
- Present digital tools earlier
- 1 or 2 days sharing experience
LEARNING ASSESSMENT

Highest grade: 17.6
Lowest grade: 11.6
Session average: 14.3
Kirkpatrick model

Evaluation of participants’ changes after the training

Level 1: Reaction

Level 2: Learning

Level 3: Behaviour

Level 4: Results

Evaluation of the benefits of training companies
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction to TTT course: objectives &amp; programme</td>
<td>Training design methodology: group work &amp; practical exercises</td>
<td>Digital tools: presentation &amp; practical work</td>
<td>Technical visit: works &amp; demonstration</td>
<td>Deliver a training session in front of a specialized audience</td>
</tr>
<tr>
<td>10:00</td>
<td>Round table: crossed presentation/ Sharing &amp; feedback experience</td>
<td>Self-assessment: what trainer are you?</td>
<td>Technical visit: calculation software for dose calculation</td>
<td>How to design relevant learning materials?</td>
<td>Self-assessment of one's training sequence</td>
</tr>
<tr>
<td>11:00</td>
<td>ECVET approach: context</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>ECVET approach: principles &amp; practical exercises</td>
<td>The fundamentals of training adults: learning factors &amp; good practices</td>
<td>Technical visit: DOSEO</td>
<td>Prepare a training session</td>
<td>Analysis &amp; debriefing of the training sessions</td>
</tr>
<tr>
<td>15:00</td>
<td>Technical visit: Practical field school</td>
<td>Technical visit: virtual space VERT</td>
<td>Technical visit: virtual space VERT</td>
<td>Technical visit: virtual space VERT</td>
<td>Evaluation &amp; conclusion of the TTT session</td>
</tr>
<tr>
<td>16:00</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
<td>Conclusion &amp; key points</td>
</tr>
</tbody>
</table>

**PREVIOUS PROGRAMME**
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction to TTT course: objectives &amp; programme</td>
<td>Training design methodology: group work &amp; practical exercises</td>
<td>Digital tools &amp; practical work</td>
<td>ECVET approach: context, principles &amp; practical work</td>
<td>Deliver a training session in front of a specialized audience</td>
</tr>
<tr>
<td>10:00</td>
<td>Round table: crossed presentation / Sharing &amp; feedback experience</td>
<td>Self-assessment: what trainer are you?</td>
<td>How to design relevant training material/ Different teaching methods</td>
<td>Training good practices: group management</td>
<td>Self-assessment of one's training sequence</td>
</tr>
<tr>
<td>11:00</td>
<td>Self-assessment: debriefing</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>Short training delivery</td>
<td>The fundamentals of training adults: learning factors &amp; good practices</td>
<td>Speaking: improvisational theatre exercises</td>
<td>Prepare a training session</td>
<td>Analysis &amp; debriefing of the training sessions</td>
</tr>
<tr>
<td>15:00</td>
<td>Technical visit: practical field school</td>
<td>Technical visit: works &amp; demonstration</td>
<td>Technical visit: calculation software for</td>
<td>Evaluation &amp; conclusion of the TTT session</td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>Optional technical visit: VERT</td>
<td>Learning evaluation &amp; conclusion</td>
<td>Learning evaluation &amp; conclusion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The schedule includes sessions on Monday, Tuesday, Wednesday, Thursday, and Friday with various topics such as introduction to TTT course, training design methodology, digital tools, and practical work. Each day also includes lunch breaks and sessions on different subjects like self-assessment, the fundamentals of training adults, and preparation of training sessions.
The French pilot session = Relevant, effective and useful

Implementation of the English pilot session

Extension to other areas of nuclear expertise

Deliverables will be soon available
Register now!

Relevant & useful tools for the trainer

Listening & availability

Training of a new type

Lots of practical works

Various pedagogical methods & activities

Yes! Register now!
Thank you for your attention

Any questions?