# Session 20

## Environmental management, resource efficiency and continuous improvement

Like any other management systems, a company that wants to implement a chemical/environmental management system (C/EMS), needs to clearly define the scope. Depending on the manufacturing processes the scope includes resource efficiency. And a monitoring system need to be integrated to measure the continuous improvement.

The implementation of this session will require about 2 hours and 20 minutes.

#### **Learning outcomes**

At the end of this session, the participants will be able to

- 1. recognize environmental management, in particular pollution, and preventive measures.
- 2. identify opportunities from Best Available Techniques (BAT) and get to know more sustainable alternatives.
- 3. understand how Continual Improvement helps to reduce the impact on the environment and implement more sustainable practices

## **Training materials required**

| Presentations   | Handouts/Worksheets | Reading  |
|---|---------------------|--|
| PPT 20_ Environmental management, resource efficiency, and continuous improvement | Workbook session 20 | REMC Company Handbook – sections 1.4,2.3,7.1,7.2,7.3 |

## Session plan

| Time in min | Content/Activity   | Reference/Material   |
|-------------|--|--|
| 5           | Introduction • Present learning outcomes and overview of the session   | PPT 20_ Environmental management, resource efficiency, and continuous improvement Slides 1-2 |
| 10          | Presentation - Environmental standard and pollution Discuss on  Different environmental standards Pollutions from textile wet process factories Impacts of pollution on health and environment | PPT 20_ Environmental management, resource efficiency, and continuous improvement slides 4-9 |

| Time in | Content/Activity  | Reference/Material   |
|---------|---|--|
| min     |   |  |
| 30      | Presentation - Air pollution Discuss on  Types of pollutants Typical air emission from textile factory  | PPT 20_ Environmental management, resource efficiency, and continuous improvement Slide 10-20          |
|         | Volatile Organic Compounds  | Olide 10 20  |
|         | <ul> <li>Exercise: Knowledge sharing within group:</li> <li>What actions have you taken in your facility so far to reduce your environmental impact?</li> <li>What worked well?</li> <li>What did not work so well?</li> </ul>              | Workbook session 20  |
|         | Presentation - Pollution prevention:  | PPT 20_ Environmental management, resource efficiency, and continuous improvement Slide 21-25          |
| 10      | Presentation - Best Available Techniques (BAT)  • What BAT is for textile industry?  • BAT checklist  | PPT 20_ Environmental management, resource efficiency, and continuous improvement                      |
|         |   | Slide 26-30  |
| 75      | Presentation - More sustainable alternatives:  • Different Cleaner Production(CP) and resource efficiency opportunities for textile industry  | PPT 20_ Environmental<br>management, resource efficiency,<br>and continuous improvement<br>Slide 31-59 |
|         | Group exercise:   |  |
|         | <ul> <li>Which Best Available Techniques have you applied?</li> <li>Which experiences have you made?</li> <li>Which further Best Available Techniques are you aware of?</li> </ul> Ask the groups to present their experience to the peers. | Workbook session 20  |
| 10      | Presentation - Continual Improvement Process  | PPT 20_ Environmental management, resource efficiency, and continuous improvement Slides 61-65         |
| 5       | Closing     Q&A     Summaries key points of the session   | PPT 20_ Environmental management, resource efficiency, and continuous improvement slides 66-67         |