

Reflections on ALARA in RP training

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Introduction

All human activities meeting economic or social requirements includes an element of risk A balance must be found

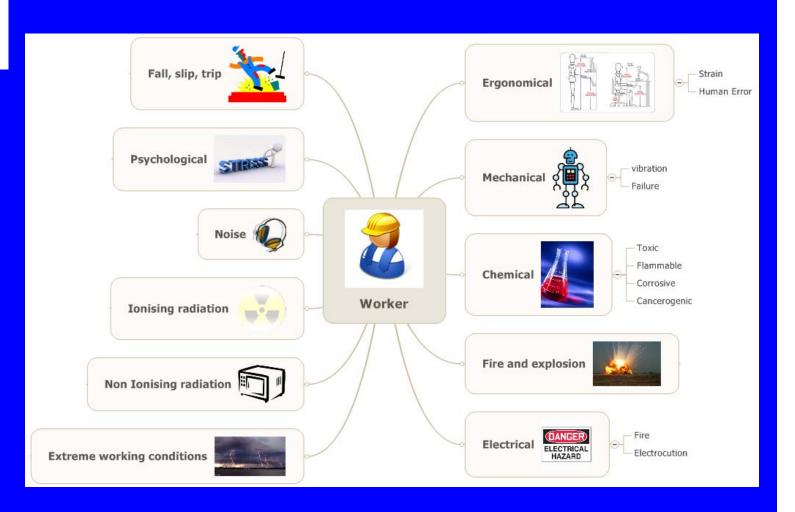
Human activity Risk

- Economic requirements
- social requirements
- health

- Worker
- Public
- Environment



Risk to the workers





Risk to the public and the environment





Network

Ionising radiation

- Ionising radiation is part of the risk spectrum related to human activity
- How can we manage the risk in all exposure situations, existing, planned and emergency?
 - Recommendations ICRP
 - Justification
 - Optimisation
 - Dose limits
 - Guidance by International Organisations
 - National legislation
- Good practices for the protection of the workers
- Good practices for the protection of the public
- Safety cultures to manage the risks
 - Industrial safety culture
 - RP culture
 - ALARA culture (at the heart of RP culture)
 - Security culture



Education and training of the stakeholders

Competent authorities

Licensees

Manufacturers, suppliers and designers

Radiation protection professionals

Exposed workers

The public

Stakeholders engagement and participation



ALARA is an obligation of means and not an obligation of results





Synthesis of the main Elements of ALARA culture

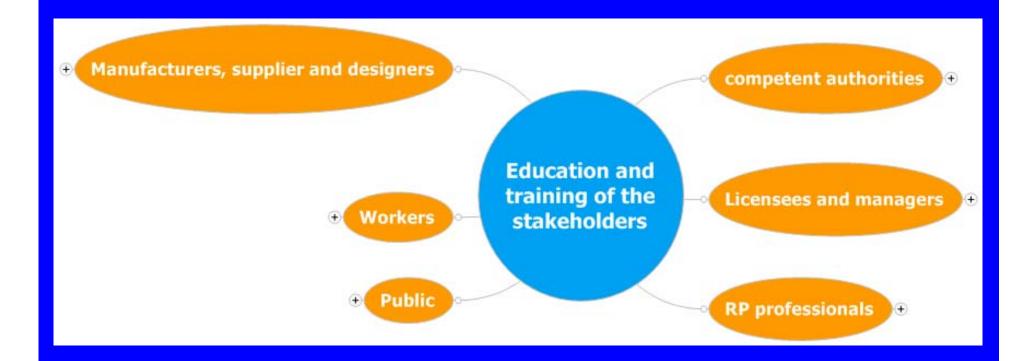
Attitudes and behaviour ALARA Culture Stakeholders engagement participation

and

Radiation awareness

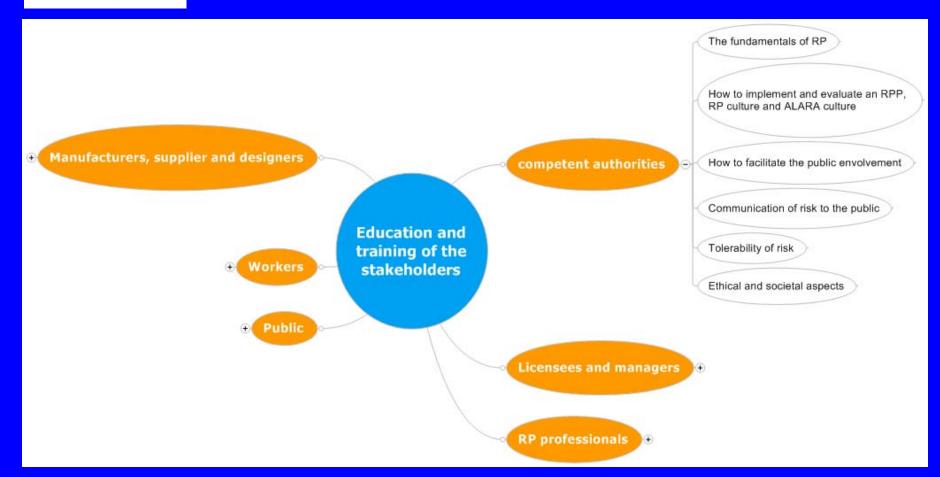


Education and training of the stakeholders some reflections





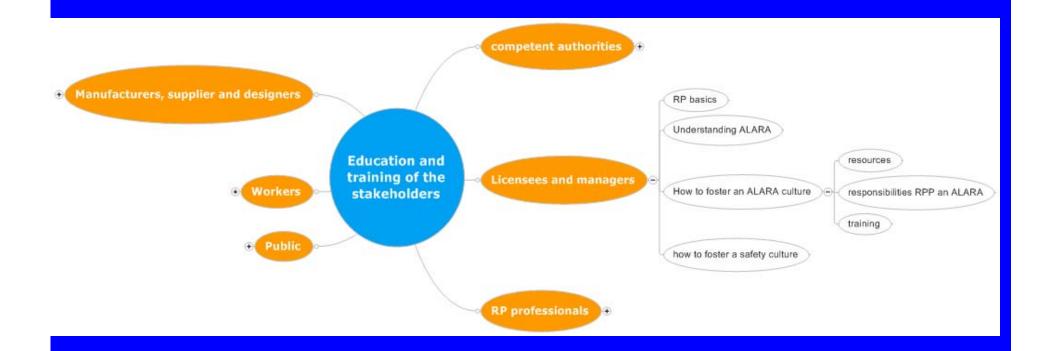
Competent authorities





Network

Licensees and managers



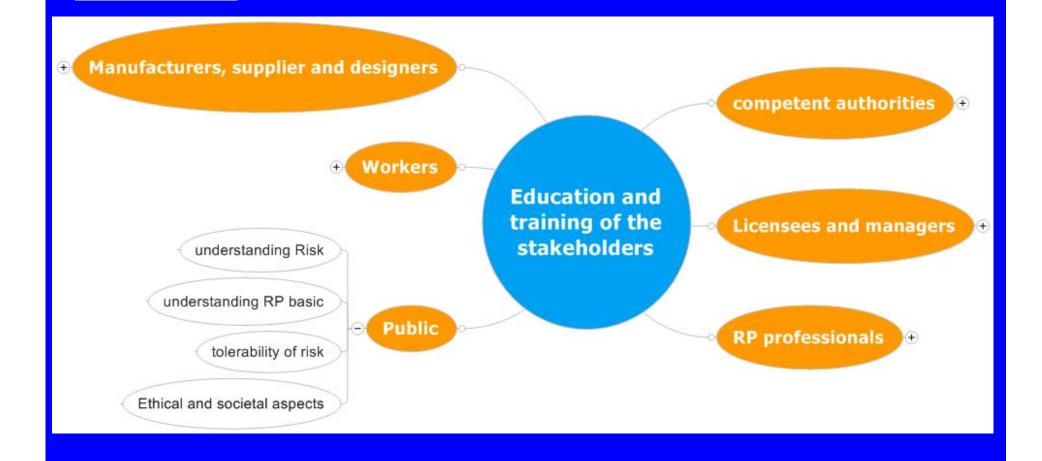


RP professionals



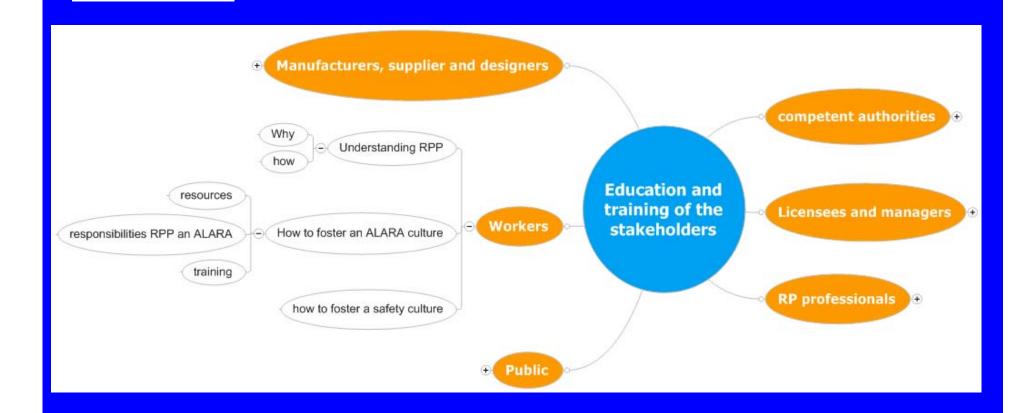


Public



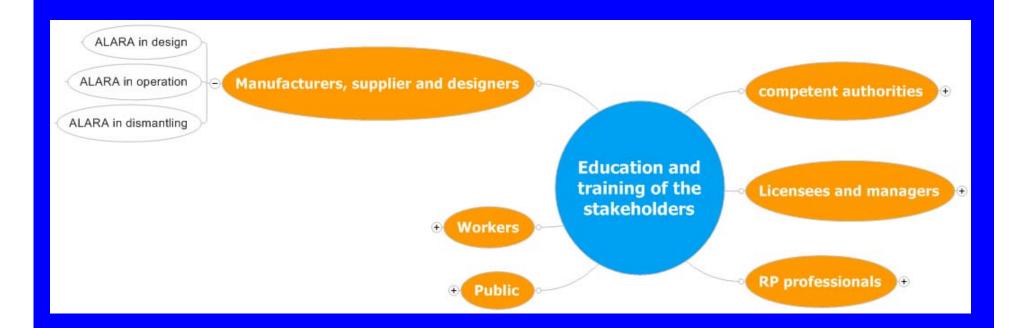


Workers





Manufacturers, suppliers and designers





Conclusion

- All human activities meeting economic or social requirements includes an element of risk
- The risk needs to be managed
- ALARA is a means to manage the risk
 - Precaution
 - Evolution of scientific knowledge
 - Responsibility
 - Limited resources,(ionising radiation is one of the risk)
 - Concept of residual risk
 - Transparency
 - The means and the rationale to implement the management of the risk can be verified by the stakeholders
- ALARA in RP training
 - The stakeholders need to understand the ALARA approach and its purpose
 - The training should be adapted to the perspectives of the stakeholder