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BPS1353 Hazard Recognition & Risk Management

Introduction to Hazard Identification

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Chapter Description

- Aims
 - Explain what is hazard, risk and danger
- Expected Outcomes
 - Able to describe hazards, unsafe acts and unsafe conditions.
- References
 - Guidelines for Hazard Identification, Risk Assessment and Risk Control (HIRARC), DOSH (2008), JKKP DP 127/789/4-47, ISBN 978-983-2014-62-1
 - www.dosh.gov.my



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Content

- Term and definition
- Hazard and Risk
- Hazard Management Process



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TERM AND DEFINITION

Hazard

- A source or a situation with a potential for harm in term of human injury or ill health, damaged to the property, environment and combination of these

Danger

- Relative exposure to hazard

Risk

- Combination of the likelihood of an occurrence and the severity of hazardous event

Source: DOSH, 2008



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HAZARDS & RISK



A hazard (here presented by a crocodile) alone cannot cause risk of injury without person being around

<https://commons.wikimedia.org/wiki/File:Crocodile.mouth.jpg>

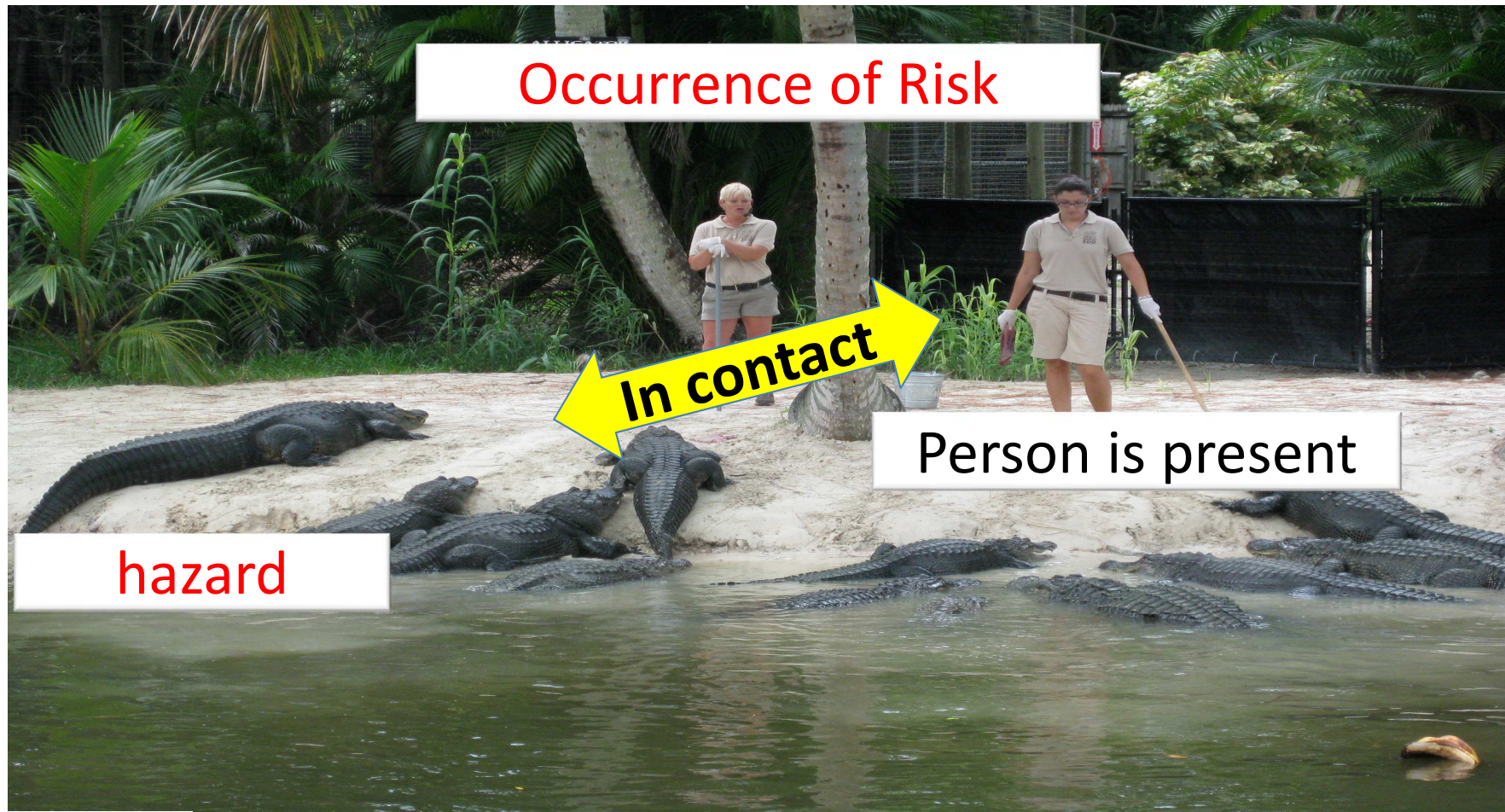


R. Thayananth



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HAZARDS & RISK



Tim Menzies



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Person is present

hazard

Guard

Hazard occurs, but it minimizes by setting up of a guard



Ducan Rawlinson



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SOURCES OF HAZARDS

Man

- Unsafe acts

Machinery

- Installation, layout and design of equipment

Materials

- Substances such as chemicals and gases use in the workplace

Method

- The way people carry out their work

Media

- Workplace condition (i.e. air quality, lighting, noise, vibration, etc.)



TYPES OR CLASSIFICATION OF HAZARDS

Mechanical

- Pinch points, sharp points and edges, overload or force a tool beyond its capabilities

Electrical

- Electrical cord insulation damaged, electrical cover broken

Biological

- Exposed to airborne and blood borne viruses, bacteria and fungus

Chemical

- Exposed to carcinogens chemicals, corrosive chemicals

Ergonomic

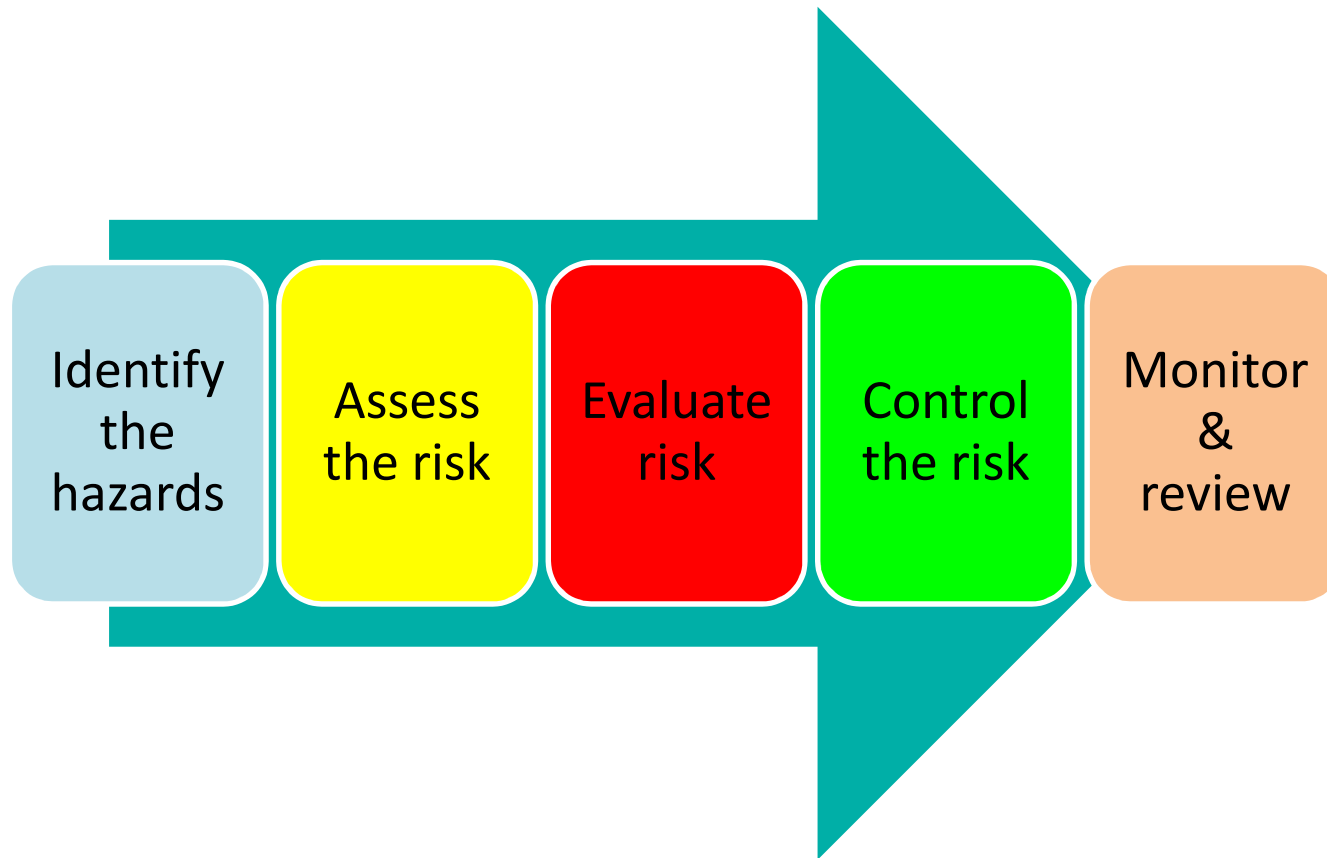
- Repeated exposure to unnatural postures and unnatural movement, wrong design tools and task

Psychological

- Stress, violent at work, sexual harassment



HAZARD MANAGEMENT PROCESS



Conclusion

- Risk of hazard can be minimized with the present of safeguard.
- People are routinely expose to the hazard at workplace.



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