

T Level Technical Qualification in Science

Occupational specialism assessment (OSA)

Laboratory Sciences

Assignment 1 – Pre-release material

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The following information is provided to support providers in setting up access for students to complete the assessment. The information must not be shared with students in advance of the assessment window.

Literature list

An article by Greenpeace on the on-going situation

www.greenpeace.org/international/story/46720/since-fukushima-disaster-decade/

An article on levels of Cs 134 Cs 137

www.seafish.org/trade-and-regulation/contaminants/radionuclides/

An article on the disaster area

www.worldnomads.com/travel-safety/eastern-asia/japan/how-dangerous-is-the-radiation-in-japan

An explanation of units of measurement of radiation/ non scientific

www.mysteryofascension.com/becquerels-grays-and-sieverts/

A radiation dosage chart

www.informationisbeautiful.net/visualizations/radiation-dosage-chart/

Experiments with Geiger counters. Politecnico di Torino

www.core.ac.uk/download/pdf/76522239.pdf

World Nuclear Association: Fukushima Daiichi Accident

www.world-nuclear.org/information-library/safety-and-security/safety-of-plants/fukushima-daiichi-accident.aspx

National Geographic: Fukushima's Tragic Legacy

www.nationalgeographic.com/environment/article/fukushima-tragic-legacy-radioactive-soil

IAEA: Fukushima Daiichi Status Update

www.iaea.org/newscenter/focus/fukushima/status-update

World Nuclear News: Monitoring Fukushima

www.world-nuclear-news.org/Articles/Monitoring-Fukushima-radiation-on-land-and-sea

An APR article documenting the radioactivity levels in food grown near Fukushima Daiichi

www.npr.org/2011/03/21/134714332/japanese-document-radioactivity-in-food?t=1633425251090

Soil Science and Plant Nutrition: Changes in concentration of radioactive isotopes

www.tandfonline.com/doi/full/10.1080/00380768.2014.989541

The Geiger counter

www.spark.iop.org/geiger-muller-tube

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