

## Radiation Worker II 24-Hour

### *Sample Matrix*

**NOTE:** \*Reflects DOE Handbook, Radiological Worker Training, DOE-HDBK-1130-2008

<b>Day</b>	<b>Subject</b>	<b>Recommended Materials</b>	<b>Activities</b>
<b>1</b>	Course Introduction	Radiological Worker manual module 1 (M-078), and Radiological Worker Instructor CD (C-078)	Activity 1.1 in the manual
	Radiological Fundamentals	Radiological Worker manual module 2	
	Biological Health Effects of Radiation	Radiological Worker manual module 3	Activity 3.1 in the manual
	Radiation Dose Limits	Radiological Worker manual module 4	
	ALARA	Radiological Worker manual Module 5	Show videos located on Instructor CD: <ul style="list-style-type: none"> <li>• Distance</li> <li>• Inverse Square Law</li> <li>• Shielding</li> </ul>
<b>2</b>	Personnel Monitoring Programs	Radiological Worker manual module 6	Show video located on Instructor CD: <ul style="list-style-type: none"> <li>• Charging Dosimeter</li> </ul> Activities 6.1 and 6.2 in the manual
	Radiological Access Controls and Postings	Radiological Worker manual module 7	
	High and Very High Radiation Areas	Radiological Worker manual module 8	
	Radiation Contamination Control	Radiological Worker manual module 9	Activities 9.1, 9.2, and 9.3 in the manual
<b>3</b>	Radiological Emergencies	Radiological Worker manual module 10	Show video located on Instructor CD: <ul style="list-style-type: none"> <li>• IUOE RWII Emergency Activity</li> </ul>
	Hands-on Labs		Set up the following hands-on stations using tables, break class into groups to complete stations: <ul style="list-style-type: none"> <li>• Geiger counter with pancake probe</li> <li>• Radiological sealed sources (alpha, beta and gamma)</li> <li>• Pencil dosimeters and chargers</li> <li>• Various personal dosimeters</li> </ul>
	Course Review and Test		Final Test located on the Instructor CD

Day	Subject	Recommended Materials	Activities
*Note: Additional site specific practical factors may be required for completion of the RW II.			
<p>Recommended evaluation for RW II consists of the following topics:</p> <ol style="list-style-type: none"> <li>9. Review an appropriate Radiological Work Permit (RWP)</li> <li>10. Record the appropriate information on the RWP</li> <li>11. Select required dosimeter(s) and protective clothing</li> <li>12. Don protective clothing and dosimeter(s)</li> <li>13. Enter simulated area and demonstrate contamination control practices</li> <li>14. Remove protective clothing and dosimeter(s)</li> <li>15. Monitor for contamination</li> <li>16. Respond to emergency situations or abnormal radiological situations</li> </ol>			