Cyber Security
Body of Knowledge

Teaching CyBOK Cyber-Physical Systems Security through Interactive Simulation

University of the West of England

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UWE cyber **Gold Award**

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National Cyber
Security Centre

Department for
Digital, Culture,
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Academic Centre of Excellence in **Cyber Security Education**

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CyBOK

Cyber-Physical Systems Security Teaching CyBOK KA19 in practice

- We propose the development of teaching resources that align to CyBOK KA 19 – CPSS.

- Teaching CPSS in practice is challenging – how can we create hands-on practical experiences that can also be shared online?

- Video tutorials on using popular research tools (FactoryIO, OpenPLC) to discuss and demonstrate possible cyber security vulnerabilities and attack vectors.

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Cyber-Physical Systems Security Teaching CyBOK KA19 in practice

CyBOK

- All videos and associated materials (software, code, etc.) will be publicly available, to help others teach CPSS and to show how we use CyBOK for our course development.

- Resources will directly feed into our Critical Systems Security module to teach CPSS based on CyBOK.

- Broadly, we hope to inspire new learners into this domain, and give them resources to aid their learning and exploration of the subject matter.
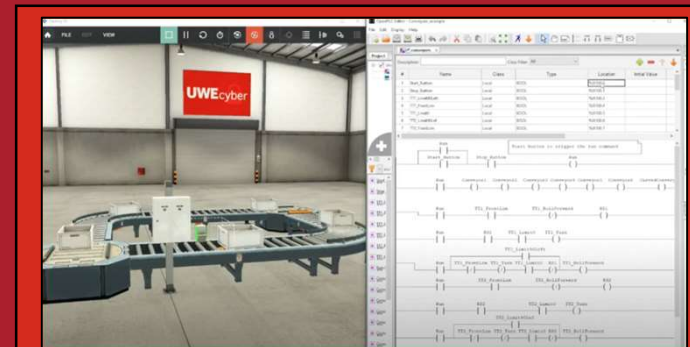

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Thank you

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