

# Learning Map-018

## ACS Risk Management

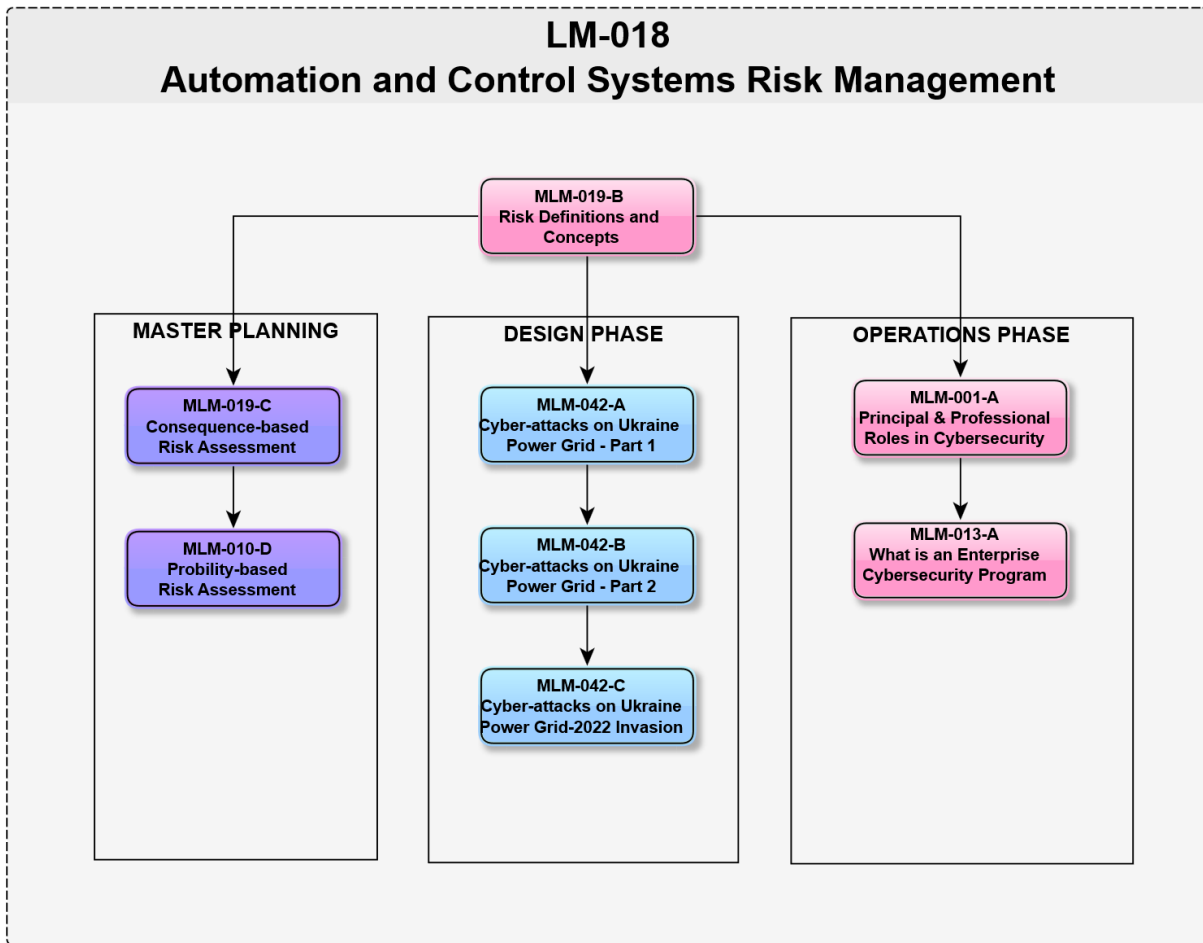


### Intended Audience:

Anyone currently involved in cybersecurity including

1. Plant Control Engineers
2. Plant IT Specialists
3. Plant Personnel working with ICS, OT, and IT systems
4. CISOs and other Head Office Staff involved in Industrial Cybersecurity

The following MLMs are recommended for this process.



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## Context and Objectives of this Learning Map

The following MLMs address “Risk Assessment and Mitigation”.

- 1) MLM-019-B Risk Definitions & Concepts (all risks)  
-Includes all types of risk that can be influenced by design or operation.
- 2) MLM-019-C Consequence-based Cybersecurity Risk Assessment  
- Include this as a recommendation, but leave the option for 3) if required by the approved company standard.
- 3) MLM-010-D Probability-based Cybersecurity Risk Assessment (see ISA 62443).  
-This questions “foundation” concepts like threat actor, zones & conduits, etc.
- 4) MLM-019-D SIS/SIL Risk Mitigation – Design Phase  
- look for old GAR MLM
- 5) MLM-020-A Safety Instrumented Systems (SIS/SIL – ISA 84) Risk Assessment  
Hal Thomas’ Team was writing a major TR combining ISA 84 and ISA 62443 in a Control and Information System design.
- 6) MLM-020-D Cybersecurity Risk Mitigation – Design Phase  
- Must work with other design departments (Control Systems, Electrical for Ex zones, cables, Civil perimeter security, IT, etc.
- 7) MLM-019-A Risk Mitigation– Operations Phase  
- Training, KPIs, Audits, Maintenance Practices, etc.