

Take home message

Lecture title: ECSS E-10 System Engineering Standards

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System engineering standards for space missions

- **System engineering** is the **interdisciplinary** approach governing the **total technical effort** required to **transform** the **stakeholders' needs** into a **system solution**
- **E-ST-10** specifies what system engineering shall **accomplish** in relation with **all other disciplines** and what supporting, **structured information** shall be used **across the space system lifecycle phases**
- **E-10 lower level standards** address 'system aspects' in more detail: **requirements specification, interface management, verification, test, human factors, coordinate systems, space environment**
- **Model-Based System(s) Engineering (MBSE)** is part of the general 'digital engineering' transformation from document-centric to model-centric methods and tools

