

# NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

## Trade, Technology, Engineering, and Industrial Education

Grade: **Grade 9 - 12**

Course: Advanced Manufacturing I **Updated**

**NCCTE.2020.IM11** - Advanced Manufacturing I

**NCCTE.2020.IM11.01.00** - Understand Safety Standards to Manufacturing Processes and Production (MSSC-M1).

**NCCTE.2020.IM11.01.01** - Understand advanced manufacturing.

**NCCTE.2020.IM11.01.02** - Understand communications used in advanced manufacturing.

**NCCTE.2020.IM11.01.03** - Understand production teams.

**NCCTE.2020.IM11.01.04** - Understand training & leadership needed in advanced manufacturing.

**NCCTE.2020.IM11.01.05** - Understand safety organization.

**NCCTE.2020.IM11.01.06** - Understand personal protective equipment and its purposes.

**NCCTE.2020.IM11.01.07** - Describe fire and electrical safety and its use in advanced manufacturing.

**NCCTE.2020.IM11.01.08** - Understand work area safety.

**NCCTE.2020.IM11.01.09** - Understand hazardous material safety in a manufacturing environment.

**NCCTE.2020.IM11.01.10** - Understand tool and machine safety.

**NCCTE.2020.IM11.01.11** - Understand material handling safety.

**NCCTE.2020.IM11.02.00** - Understand Maintenance Awareness Standards to Manufacturing Processes and Production (MSSC-M4).

**NCCTE.2020.IM11.02.01** - Understand maintenance requirements in welding.

**NCCTE.2020.IM11.02.02** - Understand maintenance requirements in basic electrical circuits.

**NCCTE.2020.IM11.02.03** - Understand maintenance requirements in electrical measurement

**NCCTE.2020.IM11.02.04** - Understand maintenance requirements in electrical power.

**NCCTE.2020.IM11.02.05** - Understand maintenance requirements in pneumatic power systems.

**NCCTE.2020.IM11.02.06** - Understand maintenance requirements in hydraulic power systems.

**NCCTE.2020.IM11.02.07** - Understand lubrication concepts.

**NCCTE.2020.IM11.02.08** - Understand maintenance requirements in bearings and couplings.

**NCCTE.2020.IM11.02.09** - Understand maintenance requirements in belt drives.

**NCCTE.2020.IM11.02.10** - Understand maintenance requirements in chain drives.

**NCCTE.2020.IM11.02.11** - Understand machine control concepts.

**NCCTE.2020.IM11.02.12** - Understand maintenance requirements in machine automation.

