

NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

Trade, Technology, Engineering, and Industrial Education

Grade: Grade 9 - 12

Course: Metals Manufacturing Technology II **Updated**

NCCTE.2020.IM42 - Metals Manufacturing Technology II

NCCTE.2020.IM42.01.00 - Apply Job Planning and Management.

NCCTE.2020.IM42.01.01 - Understand Machinery Handbook Applications.

NCCTE.2020.IM42.01.02 - Apply Measurement (semi-precision).

NCCTE.2020.IM42.01.03 - Apply Measurement (precision).

NCCTE.2020.IM42.01.04 - Apply Math Applications.

NCCTE.2020.IM42.01.05 - Understand speeds and feeds formulas and terms.

NCCTE.2020.IM42.01.06 - Apply tolerance, fits, and allowances.

NCCTE.2020.IM42.01.07 - Understand taper problems.

NCCTE.2020.IM42.02.00 - Apply Layout.

NCCTE.2020.IM42.02.01 - Apply layout (semi-precision).

NCCTE.2020.IM42.02.02 - Apply layout (precision).

NCCTE.2020.IM42.03.00 - Apply Benchwork.

NCCTE.2020.IM42.03.01 - Apply blueprint reading.

NCCTE.2020.IM42.03.02 - Understand materials.

NCCTE.2020.IM42.03.03 - Apply filing.

NCCTE.2020.IM42.03.04 - Understand machine theory.

NCCTE.2020.IM42.03.05 - Apply sawing.

NCCTE.2020.IM42.03.06 - Apply drilling.

NCCTE.2020.IM42.03.07 - Apply threads and tapping.

NCCTE.2020.IM42.03.08 - Apply milling.

NCCTE.2020.IM42.03.09 - Apply reaming.

NCCTE.2020.IM42.03.10 - Apply knurling.

NCCTE.2020.IM42.04.00 - Apply Workpiece Clamping and Tool Holding.

NCCTE.2020.IM42.04.01 - Apply tool holding applications.

NCCTE.2020.IM42.04.02 - Apply clamping and vise applications.

NCCTE.2020.IM42.05.00 - Apply Drilling Operations on a Vertical Milling Machine.

NCCTE.2020.IM42.05.01 - Apply drilling operations setup.

NCCTE.2020.IM42.05.02 - Apply drilling operations.

NCCTE.2020.IM42.06.00 - Apply Milling Operations

NCCTE.2020.IM42.06.01 - Understand milling machine components.

NCCTE.2020.IM42.06.02 - Understand feeds and speeds.

NCCTE.2020.IM42.06.03 - Apply milling operations setup.

NCCTE.2020.IM42.06.04 - Apply basic milling operations.

NCCTE.2020.IM42.07.00 - Understand Quality Control and Inspection Tasks.



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NCCTE.2020.IM42.07.01 - Understand measurement practices.

NCCTE.2020.IM42.07.02 - Understand process improvement.

