

PM Profile

PM Narrative

CAM Turning Programmer plans and programs parts requiring multiple operations on CNC Lathe. Performance evaluated by physical setup, machining, and verification of parts.

PM Profile Attributes	
Number	PN-MAC003A
Name	Cap and Spool
PA ID	PA-000002
Publisher	NIMS
Author	NIMS
Occupation	Machining
Industry	General
Recognition	CAM Turning Programmer Credential
Exclusivity	Public
Revision	A

Project Description

This PM is designed to measure the performance of a CAM Turning Programmer candidate in a scenario where two related parts requiring multiple operations must be planned and programmed for a CNC lathe using 2-axis turning applications.

Given CAD models and detail drawings for two related components along with a list of available equipment and tooling, CAM Turning Programmer candidate will create a process plan, NC programs, and setup documentation with sufficient level of detail and accuracy so that a qualified operator, following all instructions, and with minimal adjustments, can successfully machine all turned features on both components. Programmer candidate must also compare CAD models to drawings and modify 3D models to meet drawing requirements, including secondary milled features.

Evaluation method includes set up and machining of parts by a qualified operator (other than the candidate/trainee), CAD model verification, and successful verification of machined parts by a MET-TEC or Trainer with the NIMS Inspector Credential.