

WSQ Precision Engineering Advanced Certificate

WSQ COURSE NAME : **Apply Integrated Machining Technologies – Basic**

PRODUCT COURSE NAME : **NX Manufacturing Fundamentals**

TRAINING DURATION : **4 x 8hrs sessions**

* Creditable for QUT Master program and Continuing Development (CPD) courses offered by the Professional Engineers Board (PEB) Singapore.

*** Singaporeans and Permanent Residents may receive up to 90% funding on course fees from the Singapore Workforce Development (WDA). Terms and conditions apply.**

OBJECTIVES

This Competency Standard trains attendees in the generation of tool paths for 2 ½ - 3-axis milling and drilling applications, focusing on generating tool paths for prismatic parts through the development of solid models, assembly modeling and the master model concept.

The Standard introduces the concept of assembly modeling and manufacturing templates. These concepts and the subsequent generation of tool paths can be applied in the real world of product development and manufacturing collaboration.

WHO SHOULD ATTEND

This Competency Standard is intended for CAM/ Manufacturing/ Tool Room Engineers and Managers.

PRE-REQUISITES

Participants are required to have a basic understanding of manual NC/CNC programming methods and must have completed Develop Product in Virtual Environment – Basic.

COURSE SYLLABUS

- Introduction and Overview
- User Interface
- Operation Navigator
- Machine Coordinate System
- Tooling
- Visualization/Verification
- Post Processing/Shop Documentation
- Planar/Cavity Milling
- Drilling
- Face Milling
- Text Engraving



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Each course chapter is followed by "hands-on" workshops and exercises.

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