

WSQ Precision Engineering Advanced Certificate

WSQ COURSE NAME : Develop Product in Virtual Environment – Basic

PRODUCT COURSE NAME : 1. Essentials for NX Designers
2. Drafting Essentials

TRAINING DURATION : 8 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 is designed to launch students on the path of productivity. Focusing on product model design, product model detailing, assembly modelling and the basics of the master model concept, this training course demonstrates how to transfer classroom instruction to productivity on the job.

WHO SHOULD ATTEND

This Competency Standard is intended for Designers, Engineers, CAD/CAM Managers, Drafters and Checkers.

PRE-REQUISITES

Engineering knowledge and familiarity with computer (PC or workstation) are required.

COURSE SYLLABUS

- User interface
- Holes
- Coordinate systems
- Create expressions
- Introduction to sketching
- Shell
- Datums
- Instance arrays
- Modeling theory – based on extrude, revolve
- Blending and chamfers
- Part structure and edits
- Basic assembly modeling
- Intermediate sketching topics
- Assembly constraints



- Trim body
- Master model concept
- Extrude options, including draft and limits
- Creating and editing drawings
- Creating and editing annotation
- Create and edit drawings
- Create and edit orthographic, section, and detail views
- Associative view scales to model parameters
- Create and edit drafting symbols, geometric tolerancing symbols, dimensions, notes and labels
- Create associative user-defined view boundaries
- Create associative notes and labels

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

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