

PROCESS ENGINEER TRAINING COURSES

SPLIT INTO BASIC, INTERMEDIATE AND ADVANCED

PROCESS ENGINEER TRAINING

(One-day course for each Module)

9:00am TO 3:30 pm (30 minute lunch break @ 12.30pm)

OVERVIEW OF COURSE:

	BASIC	INTERMEDIATE	ADVANCED
<ul style="list-style-type: none"> • <u>Milling/Turning module</u> <ul style="list-style-type: none"> ▪ Climb Milling; Conventional Milling; Ramping ▪ External/Internal Turning; Grooving; Threading & Cut off 	☒	☒	N/A
<ul style="list-style-type: none"> • <u>Drilling/Thread Cutting module</u> <ul style="list-style-type: none"> ▪ Indexable Solid Carbide; Coated & Uncoated; HSS & HSCo ▪ Indexable insert method; Types of Solid Taps; Taps for various materials; Coated, Uncoated and Carbide Taps; Thread rolling; Colour coded Taps 	☒	☒	N/A
<ul style="list-style-type: none"> • <u>Thread Cutting module</u> 	N/A	N/A	☒
<ul style="list-style-type: none"> • <u>Nomenclature module</u> <ul style="list-style-type: none"> ▪ Internal and External Turning Nomenclature; Cartridge Nomenclature; Insert Nomenclature 	☒	N/A	N/A
<ul style="list-style-type: none"> • <u>Speeds & Feeds; Cutting Parameters module</u> <ul style="list-style-type: none"> ▪ R.P.M.; mm/min; mm/rev; mm/tooth; ▪ Chipbreakers; Geometries (positive/negative); Grades ▪ Depth of cut 	☒	☒	☒

Please Turn Over

PROCESS ENGINEER TRAINING continued...

BASIC INTERMEDIATE ADVANCED

- Insert module

- Uncoated Carbide; Spectra System Inserts; CVD Coated Carbide; PVD Coated Carbide; Cermet Inserts; Ceramic Inserts; PCD/PCBN Inserts
- General
 - Types of Coatings
 - Surface Finish Control
 - Failure Modes
 - Coolant Problems
 - Cost of Inserts and Toolholders
 - How to Engineer solutions to Problems
 - When and how use PCD, Ceramics etc.

- A test will be completed at the end of the course
- 50% pass required to obtain a certificate
- Advance can only be attended subject to the Intermediate course being passed.

Costs: R 500/person/module (block booking discounts available)

Costs include:

- **Support literature for attendee**
- **Certificate**