

Injection Molder - 2A Mold Design Concepts

Training	Injection Molding Mold Design Concepts Document							
Level	2A							
Type	SELF-GUIDED DOCUMENT							
Time Estimate	1 hr.							
Prerequisites	Injection Molder - 1B Introduction							
Access Gained	Injection Molder - 2B Advanced							
User Level	TRAINEE							
Objectives	• Learn the basics of part design for injection molding. • Introduce mold design components. • Understand the differences between metal and 3D printed molds.							
Checklist/Document	Self-Guided Training Document (2A):							
Models	TopMUD.stl BottomMUD.stl Morgan Press 3D Model by Alexander Numann							
Design Guides	ADDING FEATURES TO PARTS USING FUSION 360 <table><tr><td>Drafts</td><td>Negative Mold</td><td>Injection Mold Design Guide</td></tr><tr><td>Complex Parting Surfaces</td><td>Undercuts</td><td>Ejector Inserts & Pins</td></tr></table> <u>General mold design guides for different CAD software:</u> Fusion 360, SolidWorks, Inventor <u>Mold flow analysis guides:</u> Fusion 360, MoldFlow Insight, SolidWorks, Inventor		Drafts	Negative Mold	Injection Mold Design Guide	Complex Parting Surfaces	Undercuts	Ejector Inserts & Pins
Drafts	Negative Mold	Injection Mold Design Guide						
Complex Parting Surfaces	Undercuts	Ejector Inserts & Pins						
Other	Machine Dimensions:							



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