

## Training Course Agenda for Stardom PAS-POU Functions Blocks

<b>Course Code</b>	STPAS
<b>Objectives</b>	: This course covers the Yokogawa control function blocks for Stardom, the PAS-POU function blocks. The user will gain the knowledge to use these to perform complex process control functions in the FCN/FCJ.
<b>Course Duration</b>	: 2 days
<b>Training Hours</b>	: morning session      9 <sup>00</sup> to 12 <sup>00</sup> afternoon session      13 <sup>00</sup> to 17 <sup>00</sup>
<b>Trainees</b>	: 8 maximum
<b>Participants</b>	: For engineers involved in software generation or modification of the Stardom system.
<b>Prerequisite</b>	: The participant must have attended the <b>Stardom Engineering</b> course.
<b>Documentation</b>	: Stardom PAS-POU Training Manual / Tutorial Software
<b>Location</b>	: Please refer to the supplied Orientation sheet for venue details
<b>Additional Information</b>	: Lunch will be provided.
<b>Contact Information</b>	: National Training Centre Yokogawa Australia Pty Ltd Tower A Level 2 112 – 118 Talavera Rd, MACQUARIE PARK NSW 2113 AUSTRALIA  telephone : +61 2 8870 1100 facsimile : +61 2 8870 1111  e-mail : <a href="mailto:training@au.yokogawa.com">training@au.yokogawa.com</a>  Training site : <a href="http://www.yokogawa.com/au/cp/trainingcentre.htm">http://www.yokogawa.com/au/cp/trainingcentre.htm</a>  Website : <a href="http://www.yokogawa.com/au/">http://www.yokogawa.com/au/</a>

Course Content

Day	Topics	Workshops
1	<p>Overview of Stardom Summary of PASPOU <b>Regulatory Control</b> Regulatory Control Block detail:</p> <ul style="list-style-type: none"> <li>- Input/Output Processing blocks</li> <li>- Detailed specification</li> <li>- Readback function</li> <li>- Setting parameters</li> <li>- Using blocks in the different programming environments: (FBD, LD, ST, SFC, IL)</li> </ul>	<p>Regulatory Control loop exercises:</p> <ul style="list-style-type: none"> <li>- Single Loop Control</li> <li>- Cascade Control</li> <li>- Deadtime control with PI-HLD</li> <li>- Ratio Control</li> <li>- Temperature profiling</li> <li>- High/low selection</li> <li>- Feedforward control</li> </ul>
2	<p><b>Calculation function blocks</b></p> <ul style="list-style-type: none"> <li>- Detailed specifications</li> <li>- Readback function</li> <li>- Setting parameters</li> <li>- Using blocks in the different programming environments: (FBD, LD, ST, SFC, IL)</li> </ul> <p><b>Sequence auxiliary blocks</b></p> <ul style="list-style-type: none"> <li>- The advanced functions of the PASPOU timer and counter</li> <li>- Using SIO blocks for interfacing to valves &amp; actuators</li> </ul>	<p>Calculation exercises:</p> <ul style="list-style-type: none"> <li>- Using lead/lag</li> <li>- Smoothing with Moving Averaging</li> <li>- Linearization with the FUNC-VAR</li> <li>- Using switches for loading parameters</li> <li>- Temperature &amp; Pressure correction of gas flow</li> </ul> <p>Sequence exercises:</p> <ul style="list-style-type: none"> <li>- Using the timer &amp; counter. Comparison with the IEC timers and counters</li> <li>- Valve and motor control exercises</li> </ul>