

Fiber Laser Training - LCG AJ/ENSIS AJ/VENTIS AJ

| Date/Day | Time(H) | Topic | Contents | |
|----------------------------|---|---|--|--|
| 1st Day | 9:00 ~ 9:15 | | Introduction and Facility orientation | |
| | 09:15~10:45 | Machine | Machine explanation, | |
| | | Accessories | Explanation & Purpose of Accessories, Chiller, Dust collector, Purge unit , EZ Unit. Air supply unit | |
| | Break Time (15 min) | | | |
| | 11:00 ~ 12:15 | Laser Safety rules | Measures for preventing laser beam hazards | |
| | | | Handling of optical parts | |
| | | Heath and Machine Safety | Inhale of Cutting gases, Medical devices failure, High voltage, Eye examination | |
| | | Machine Specification | Cutting Speed, Axis Speed, Retract of all axis, Options etc. | |
| | 12:15 ~ 13:00 | Laser Basics | Brief info. on generation of Laser and Metal cutting Process | |
| | | Material Explanation | Material types of Mild steel, Stainless steel, Aluminum, Copper, Brass and Titanium. | |
| | | Assist Gas types and effects | Types of assist gas and its effect on cutting quality. | |
| | Lunch Time | | | |
| | 14:00 ~ 15:00 | Machine Ready & Adjustment | Machine start ON and 3i Control panel buttons explanation Lens and protection glass cleaning, nozzle inspection and Centering | |
| | 15:00 ~ 15:30 | Sample Cutting | Sample cutting of Oxygen, Nitrogen and Air | |
| Break Time (15 min) | | | | |
| 15.45 ~ 16.30 | Practice and Review | Practice of Lens cleaning, Nozzle Centering | | |
| 16.30 ~ 17:00 | | Sample Cutting and machine shutdown | | |
| 17:00 ~ 17:15 | Q & A | | | |
| 2nd Day | 09:00 ~ 9:15 | Review | Review on previous day training | |
| | 09:15 ~ 10:00 | Machine Ready | Repeat Make machine Ready procedure Lens Cleaning, Protection glass cleaning | |
| | | Types of lenses | 190 lens & 190AX lens | |
| | 10:00 ~ 10:45 | Types of Nozzles | Eco cut nozzles, clean cut and WACS nozzle | |
| | Break Time (15 min) | | | |
| | 11:00 ~ 12:15 | 3i Control Panel | AMNC 3i controller explanation, Utility Screen explanation, nozzle change , Focus Adjustment, HS sensing, | |
| | 12:15 ~ 13:00 | Dimension correction | Dimension correction by Adjust offset | |
| | Lunch Time | | | |
| | 14:00 ~ 14:30 | LST operation | Sheet Loading, Exchange of shuttle table in Auto and manual mode | |
| | 14:30 ~ 15:00 | Cutting types | Clean cut, Oxygen cut and Air cut. | |
| | 15:00 ~ 15:30 | Cutting Practice | Cutting Practice | |
| | Break Time (15 min) | | | |
| | 15.45 ~ 16.30 | Sample Cutting | Sample cutting demonstration and Accuracy check | |
| | 16.30 ~ 17:00 | Cutting trials with program Modification | Cutting Practice of various material with program modification. Part Base Point, Home Base Point, Multiple Part,etc | |
| 17:00 ~ 17:15 | Q & A | | | |
| 3rd Day | 09:00 ~ 09:15 | Review | Review on previous day training | |
| | 09:15 ~ 09:30 | Machine Ready | Repeat Make machine Ready procedure Lens Cleaning, nozzle centering practise | |
| | | Cut condition files | Cutting condition files explanation for Oxygen, Nitrogen and Air cutting etc. | |
| | Break Time (15 min) | | | |
| | 11:15 ~ 13:00 | Various cuttings | Eco cut, Clean cut, WACS cut, Oil shot and Flash Cut | |
| | 13:00 ~ 14:00 | Lunch Time | | |
| | 14:00 ~ 15:30 | AMNC-3i Control Panel | Programme Schedule | |
| | | | Switch panel | |
| | | | Current Position Panel | |
| | | | Nozzle loading and Registration nozzle changer unit (Option) | |
| Break Time (15 min) | | | | |
| 15:45 ~ 17:00 | Cutting Parameter | Cutting parameter explanation and its adjustment Cutting trials Practice by changing Focus, Gas pressure and Speed | | |
| 17:00 ~ 17:15 | Q & A | | | |
| 4th Day | 09:00 ~ 09:15 | Review | Repeat Make machine Ready procedure | |
| | 09:15 ~ 10:45 | AMNC-3i Menu Function | Resume, Reprocessheet and Retry | |
| | Break Time (15 min) | | | |
| | 11:00 ~ 12:00 | M and G codes | M codes and G codes explanation with cutting trails | |
| | 12:00 ~ 13:00 | Lunch Time | | |
| | 13:00 ~ 14:00 | Lunch Time | | |
| | 14:00 ~ 15:30 | Machine Periodic maintenance. | Periodic Maintenance | |
| | Break Time (15 min) | | | |
| 15:45 ~ 17:15 | Review, Laser Test and training feedback | | | |
| | Test Paper Checking and Certificate Distribution | | | |