



IL PROGETTO DI E-LEARNING DI MITSUBISHI ELECTRIC
PER LA FORMAZIONE TECNICA E PROFESSIONALE NELLE SCUOLE

Modulo specialistico di:

Automazione Industriale - Percorso Robot

Attività di SMARTWORKING: dalla teoria alla pratica

MANDATO OPERATIVO



**Automating
the World**

Vimercate 13/05/2024

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Premessa



Durante le sessioni di e-learning hai conosciuto il Robot, la robotica collaborativa ed i principi base di programmazione



Con le competenze che hai acquisito potrai sviluppare il progetto di automazione descritto nelle slides successive.

Descrizione del mandato

Il progetto da realizzare dovrà mostrare il funzionamento di un sistema presa e deposito (Pick&Place) tramite il robot collaborativo di Mitsubishi Electric.



Il mandato è diviso in due fasi descritte nelle slide successive.

Fase 1: Attività di studio individuale

1. Installare il tool di programmazione PLC RT Visual BOX dal seguente link:
<http://cloud.mitsubishielectric.it/index.php/s/icFP6fzHmfFFm0R>
Password di accesso: **RT_VirtualBox**
Lanciare il file .exe e seguire le istruzioni. Per l'installazione in modalità demo seguire le specifiche riportate nell'**Allegato 1 - Studente - Specifiche tecniche**.
2. Sviluppare il programma Robot come da «**Allegato 1 - Studente - Specifiche tecniche**»
3. Eseguire in simulazione il programma Robot e verificarne il corretto funzionamento
4. Salvare il file con il progetto Robot e caricarlo nella piattaforma e-learning.

Fase 2:

Attività di studio individuale + condivisione in classe

1. Produrre un video (durata massima 2 minuti, dimensione massima 50Mb) che documenti il funzionamento in simulazione del programma Robot.
2. Caricare il video nella piattaforma e-learning.
3. Condivisione in classe



Allegati per lo studente:

Allegato 1 - Studente - Specifiche tecniche

Allegato 2 - Studente - RV-5AS - Quick set-up guide

Allegato 3 - Studente - Tutorial Quick Start RT VisualBox

Allegati per il docente:

Allegato A - Docente - Esempio Progetto Robot

Allegato B - Docente - Note

Allegato C - Docente - Esempio Progetto completato

Conclusioni

Al termine del mandato, nella piattaforma e-learning dovranno essere presenti i seguenti files:

FASE1_Programma.ZIP

Contenente il file:

FASE1_ProgrammaRobot_V01

FASE2_VideoProgetto.MP4

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